MAR O L 2004 WHEN THE PROPERTY OF THE PROPERTY

Page 1 of 53 ATTY. DOCKET NO. APPLICATION NO 1744.0260001 09/476,093 FORM PTO-1449 APPLICANT Sorrells et al. INFORMATION DISCLOSURE STATEMENT FILING DATE GROUP MAR 0 5 2004 January 3, 2000 2631 **U.S. PATENT DOCUMENTS** Technology Center 2600 **EXAMINER** DOCUMENT DATE CLASS SUB-INITIAL NAME NUMBER CLASS <u> ۲.</u> AA1 2,057,613 10/1936 Gardner 250 8 AB1 2,241,078 05/1941 Vreeland 179 15 AC1 2,270,385 01/1942 Skillman 179 15 250 AD1 2,283,575 05/1942 Roberts 6 09/1944 Earp 179 171.5 AE1 2,358,152 Labin et al. 179 15 AF1 2,410,350 10/1946 10/1948 250 8 AG1 2,451,430 Barone 02/1949 250 17 AH1 2,462,069 Chatterjea et al. AI1 2,462,181 02/1949 Grosselfinger 250 17 FOREIGN PATENT DOCUMENTS **EXAMINER** INITIAL DOCUMENT NUMBER DATE COUNTRY CLASS SUB-TRANSLATION CLASS AJ1 DE 42 37 692 C1 03/1994 DE HO4B 1/26 No C.C. 09/1981 ΕP HO4B AK1 EP 0 035 166 A1 1/26 No EP 0 193 899 B1 06/1990 ΕP G01S 7/52 N/A AL1 AM1 EP 0 380 351 A2 08/1990 ΕP нозн 17/04 N/A OTHER (Including Author, Title, Date, Pertinent Pages, etc.) Aghvami, H. et al., "Land Mobile Satellites Using the Highly Elliptic Orbits- The UK T-SAT Mobile Payload," Fourth International Conference on Satellite Systems for Mobile Communications and Navigation, IEE, pp. AΝ 1 147-153 (October 17-19, 1988). C.C. Akers, N.P. et al., "RF Sampling Gates: a Brief Review," IEE Proceedings, IEE, Vol. 133, Part A, No. 1, pp. 45-ΑO 1 49 (January 1986). Al-Ahmad, H.A.M. et al., *Doppler Frequency Correction for a Non-Geostationary Communications Satellite. Techniques for CERS and T-SAT,* Electronics Division Colloquium on Low Noise Oscillators and Synthesizers, ΑP 1 IEE, pp. 4/1-4/5 (January 23, 1986). Ali, I. et al., "Doppler Characterization for LEO Satellites," IEEE Transactions on Communications, IEEE, Vol. ΑQ 1 46, No. 3, pp. 309-313 (March 1998). Allan, D.W., "Statistics of Atomic Frequency Standards," Proceedings Of The IEEE Special Issue on Frequency AR 1 Stability, IEEE, pp. 221-230 (February 1966).

EXAMINER C.CHOW

DATE CONSIDERED 7/20/04

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

P:\USERS\LISONG\1744\026-1_1449.wpd

. .

	FORM PTO-1449 INFORMATION DISCLOSURE STATEMENT						TTY. DOCKET NO. 744.0260001			CATION N	° RECE	IVED
	1	PORM P	PTO-1449	•			PLICANT				TILOE	コット
INF	ORMATIO	N DIS	CLOSURE STA	TEME	NT		orrells et al.		GROUP	·	MAR 0	5 2004
					uen		nuary 3, 2000		2631		WALL V	2004
EXAMINER		T			U.S. P.	ATEN	I DOCOMENTS			- 	Technology	Center 260
INITIAL			CUMENT ABER	DAT	E	NAA	4E	CL	ASS	SUB- CLASS	FILING DATE	
C.C.	AA2	2,47	2,798	06/1	949	Fred	endall	174	В	44		
	AB2	2,49	7,859	02/1	950	Bou	ghtwood et al.	250	0 .	8		}
	AC2	_	9,279	02/1		Pete		333	2	41		
	AD2	_	2,208	08/1		Hob		34:		176		
	AE2	7	5,875	05/1			dale et al.	34:		100		l
	AF2	+	3,309	02/1		Foul		250		17		
	AG2		9,679	12/1		_	eney et al.	343		200	 	Į
	AH2	1	4,393	09/1		_	elman	343		200	- 	
<u> </u>	Al2 3,114,106 12/1963					_	anus ENT DOCUMENTS	325	5	56		
EXAMINER INITIAL	IER					FAI	COUNTRY	CIA	ASS	SUB-	TRANSLATION	
							EP	но		CLASS 17/04	N/A	
1	.C . AJ2 EP 0 380 351 A3 02/1991 AK2 EP 0 411 840 A2 02/1991						EP	G0		33/36	N/A	
	AL2 EP 0 411 840 A3 07/1991				07/1991		EP	G0	1R	33/36	N/A	
	AM2	EP O	411 840 B1		10/1995		EP .	GO	1R	33/36	N/A	
v	<u> </u>	1	OTHER	(Incl	uding Auth	or, Ti	l tle, Date, Pertinent Pag	ies, etc.)		L	1	
. C.C.	AN	2	Alistot, D.J. et 13, No. 6, pp.	al., * 806	MOS Switch -814 (Decen	ed Ca nber 1	pacitor Ladder Filters, " IEL 978}.	EE Journal	of Solid	l-State Circo	uits, IEEE, Yol. SC-	
	AO	2	Allstot, D.J. ar Capacitor Filte	nd Blo ering	ick Jr. W.C., Systems," Pri	"Tech oceed	nological Design Conside ings of the IEEE, IEEE, Vol	erations fo	r Monol 8, pp. 9	ithic MOS (67-986 (Au	Switched- Igust 1983).	
	AP 2 Alouini, M. et al., *Channel Characterization and Modeling for Ka-Band Very Small Aperture Terminals,* Proceedings Of the IEEE, IEEE, Vol. 85, No. 6, pp. 981-997 (June 1997).											
	AQ	Andreyev, G.A. and Ogarev, S.A., "Phase Distortions of Keyed Millimeter-Wave Signals in the Case of Propagation in a Turbulent Atmosphere," Telecommunications and Radio Engineering, Scripta Technica, Vol. 43, No. 12, pp. 87-90 (December 1988).										
V	AR	2					ampling in the Picosecond I, No. 2, pp. 211-214 (Ma		Optics C	Communica	ions, North-	
								DATE	CONSI	DERED 7	20/04	
EXAMINER &	CHO	V								7	20107 . 1	
EXAMINER: In	itial if ref	erence	considered, wt	nethe	r or not citat	ion is	in conformance with MPE communication to Applic	P 609. D	raw line		,	



RECEIVED

MAR 0 5 2004

Technology Center 2600

Page 3 of 53

												Page 3 of 53		
								TY. DOCKET NO. 44.0260001			ICATION NO	0.		
				TO-1449				PLICANT rrells et al.						
	INFO	RMATIO	N DIS	CLOSURE STA	TEME	<u>VT</u>	FI	LING DATE nuary 3, 2000		GROU 2631		· · · · · · · · · · · · · · · · · · ·		
			-			U.S. P/		F DOCUMENTS	· · · · · · · · · · · · · · · · · · ·					
EXAMINE	R										T			
INITIAL			DOC	CUMENT ABER	DATE		NAM	Æ	CI	ASS	SUB- CLASS	FILING DATE		
5.0	<u> </u>	AA3	3,11	8,117	01/1	964	King	et al.	33	2	22			
1		AB3	3,22	6,643	12/1	965	McN	air	32	5	40			
		AC3	3,25	8,694	06/1	966	Shep	herd	32		145			
		AD3	3,38	3,598	05/1	968	Sand	ers	32		163	4		
		AE3	1	4,822	05/1		Miya		32		30			
		AF3	_	4,718	07/1		Perre		17		66			
		AG3	+	3,291	08/1		Pierr		34		347	- 		
——— —	/	AH3	_	8,342	12/1		Maxe	<u> </u>	33		9			
,		AI3	3,55	5,428	01/1		Perre		32	5	320	<u>.l </u>		
						FOREIGN	PATI	NT DOCUMENTS			T			
EXAMINE INITIAL	ER		DOG	CUMENT NUM	BER	DATE		COUNTRY	CL	ASS	SUB- CLASS	TRANSLATION		
C.C	c .	AJ3	EP 0	423 718 A2		04/1991		EP	. но)4N	7/01	N/A		
		AK3	EP 0	423 718 A3		08/1992		EP	НС)4N	7/01	N/A		
		AL3	EP 0	486 095 A1		05/1992		EP .	но	3D	3/00	N/A		
	/	AM3	EP 0	486 095 B1		02/1997		EP	Н	3D	3/00	N/A		
· ·				ОТНЕ	(Incl	uding Auth	or, Ti	tle, Date, Pertinent Po	iges, etc.)					
٥. ٢	c.	AN	<u>3</u>	Austin, J. et d European Mi 15, 1988).	al., "Do crowa	oppler Corre ve Conferenc	ction ce, Mi	of the Telecommunicati crowave Exhibitions and	on Payload I Publishers	Oscillo Ltd., p	ntors in the Up. 851-857	JK T-SAT," 18 th (September 12 -		
		AO	3	Auston, D.H. Institute of P	., "Pico hysics,	second opto Vol. 26, No	electr 3, p _l	onic switching and gating 1, 101-103 (February 1,	ng in silicor , 1975).	n," Appl	ied Physics L	etters, American		
		AP 3 Baher, H., "Transfer Functions for Switched-Capacitor and Wave Digital Filters," IEEE Transactions on Circuits and Systems, IEEE Circuits and Systems Society, Vol. CAS-33, No. 11, pp. 1138-1142 (November 1986).												
		AQ	<u>3</u>	Baines, R., "The DSP Bottleneck," IEEE Communications Magazine, IEEE Communications Society, pp. 46-54 (May 1995).										
	/	AR	<u>3</u>					or Probabilities on Earth 7, pp. 296-297 (March 2		ks Subje	ect to Scintill	ation Fading,"		
EXAMINI	FD		<u> </u>	L				<u> </u>	DAT	E CON	SIDERED 7	/ / .		

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.



RECEIVED

MAR 0 5 2004

Technology Center 2600

Page 4 of 53 ATTY. DOCKET NO. APPLICATION NO. 1744.0260001 09/476,093 FORM PTO-1449 APPLICANT Sorrells et al INFORMATION DISCLOSURE STATEMENT FILING DATE GROUP January 3, 2000 U.S. PATENT DOCUMENTS **EXAMINER** INITIAL DOCUMENT DATE NAME CLASS FILING DATE SUB-NUMBER CLASS 3,617,892 11/1971 Hawley et al. 325 145 AB4 3,621,402 11/1971 Gardner 328 37 AC4 11/1971 3,623,160 Giles et al. 340 347 DA AD4 12/1971 3,626,417 Gilbert 343 203 AE4 3,629,696 12/1971 **Bartelink** 324 57 R AF4 3,662,268 05/1972 Gans et al. 325 56 AG4 3,689,841 09/1972 Bello et al. 325 39 AH4 3,714,577 01/1973 145 Hayes 325 Al4 3,717,844 02/1973 Barret et al. 340 5 R **FOREIGN PATENT DOCUMENTS** EXAMINER INITIAL DOCUMENT NUMBER COUNTRY DATE SUB-CLASS TRANSLATION CLASS AJ4 EP 0 512 748 A2 11/1992 FP HO4N 9/64 N/A C.C. AK4 EP 0 512 748 A3 07/1993 FP H04N 9/64 N/A AL4 EP 0 512 748 81 11/1998 ЕP H04N 9/64 N/A AM4 EP 0 548 542 A1 06/1993 нозв 19/14 N/A OTHER (Including Author, Title, Date, Pertinent Pages, etc.) Banjo, O.P. and Vilar, E., The Dependence of Slant Path Amplitude Scintillations on Various Meteorological ΑN Parameters," Fifth International Conference on Antennas and Propagation (ICAP 87) Part 2: Propagation, IEE, 4 pp. 277-280 (March 30 - April 2, 1987). C.C. Banjo, O.P. and Vilar, E. "Measurement and Modeling of Amplitude Scintillations on Low-Elevation Earth-Space Paths and Impact on Communication Systems," *IEEE Transactions on Communications*, IEEE Communications Society, Vol. COM-34, No. 8, pp. 774-780 (August 1986). AO 4 Banjo, O.P. et al., "Tropospheric Amplitude Spectra Due to Absorption and Scattering in Earth-Space Paths," Fourth International Conference on Antennas and Propagation (ICAP 85), IEE, pp. 77-82 (April 16-19, 1985). ΑP <u>4</u> Basili, P. et al., "Case Study of Intense Scintillation Events on the OTS Path," IEEE Transactions on Antennas and Propagation, IEEE, Vol. 38, No. 1, pp. 107-113 (January 1990). ΑQ Basili, P. et al., "Observation of High C^2 and Turbulent Path Length on OTS Space-Earth Link," Electronics Letters, IEE, Vol. 24, No. 17, pp. 1114-1116 (August 18, 1988). AR <u>4</u> **EXAMINER** DATE CONSIDERED

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in

conformance and not considered. Include copy of this form with next communication to Applicant.
PNUSERSUASONG(1744)026-1_144(...pd



RECEIVED

MAR 0 5 2004

Technology Center 2600

						T _A T	TY. DOCKBT NO.		A DDI.T	CATION N	Page 5 of 53		
	,	PODM 1	DTO 1440				44.0260001			6,093			
IN	•		PTO-1449 CLOSURE ST	ATEME	NT.		PLICANT rrells et al.	·					
·					<u></u>		LING DATE nuary 3, 2000		GROUP 2631				
					U.S. P/	ATENI	DOCUMENTS						
EXAMINER INITIAL			CUMENT	DAT	E	MAM	E	CL	ASS	SUB- CLASS	FILING DATE		
C.C.	AA5	3,73	35,048	05/1	1973	Toms	a et al.	17	9	15 BM	1		
	AB5	3,80	06,811	04/1		Thom	pson	32:	5	146			
	AC5	3,86	8,601	02/1	975	MacA		33:	2	45			
	AD5	3,94	19,300	04/1	976	Sadle	r	32:	5	31			
	AE5	3,96	7,202	06/1	976	Batz		32	5	31			
	AF5	3,98	0,945	09/1	976	Bickfo	ord	32:	5	30			
	AG5	3,98	37,280	10/1	976	Bave		23:	5	150.53			
	AH5	3,99	1,277	11/1	976	Hirata)	179	9	15 FD			
V	Al5	4,00	3,002	01/1	977	Snijde	ers et al.	333	2	10			
				•	FOREIGN	PATE	NT DOCUMENTS			·			
XAMINER NITIAL		DOG	CUMENT NUM	\BER	DATE		COUNTRY	CL	ASS	SUB- CLASS	TRANSLATION		
C.C.	AJ5	EP O	632 288 A2		01/1995		EP	G0	15	13/75	N/A		
	AK5 EP 0 632 288 A3 07/199						EP ,	G0	15	13/75	N/A		
	AL5	EP 0	696 854 A1		02/1996		EP	HO	4B	1/26	N/A		
V	AM5	EP 0	782 275 A2	•	07/1997		EP	но	4B	7/02	N/A		
•			OTHE	R (Incl	uding Auth	or, Titl	le, Date, Pertinent P	ages, etc.)					
C.C.	AN	<u>5</u>	Blakey, J.R. e Region," <i>Ele</i> c	et al., " tronics	Measuremen Letters, IEE,	nt of At Vol. 2	mospheric Millimetre 1, No. 11, pp. 486-48	-Wave Phase 37 (May 23,	Scintille 1985).	itions in an	Absorption		
	AO	<u>5</u>		ions," d	annales des t		gauge integration tim nmunications, Internat						
	AP	<u>5</u>	Application t	o Micr	owave Comm	nunica	Statistical Analysis of I Itions," Fifth Internatio 198-201 (March 30	nal Conferen	ce on A	ntennas and			
	AQ	<u>5</u>	Burgueño, A. et al., "Long Term Statistics of Precipitation Rate Return Periods in the Context of Microwave Communications," Sixth International Conference on Antennas and Propagation (ICAP 89) Part 2: Propagation, IEE, pp. 297-301 (April 4-7, 1989).										
V	AR	<u>5</u>					of 49 Years of Rainfal Communications Soc						
EXAMINER (.CHOU	U						DATE	CONSI	DERED 7/	20/04		
				1									
XAMINER:	Initial if rel	erence	considered, w	metne	r or not citat	ion is i	n conformance with A communication to App	APEP 609. D	raw line	through cit	tation it not in		



ATTY. DOCKET NO. APPLICATION NO. 1744.0260001 09/476,093 MAR 0 5 2004 FORM PTO-1449 APPLICANT Sorrells et al. INFORMATION DISCLOSURE STATEMENT FILING DATE GROUP Technology Center 2000 January 3, 2000 2631 **U.S. PATENT DOCUMENTS** EXAMINER INITIAL DOCUMENT DATE NAME CLASS SUB-FILING DATE NUMBER CLASS C.C. AA6 4,013,966 03/1977 Campbell 325 363 AB6 4,019,140 04/1977 Swerdlow 322 65 07/1977 AC6 4,035,732 Lohrmann 325 446 4,047,121 09/1977 331 AD6 Campbell 76 01/1978 178 AE6 4,066,841 Young 66 R AF6 01/1978 4,066,919 Huntington 307 353 AG6 4,081,748 03/1978 Batz 325 56 AH6 4,130,765 12/1978 Arakelian et al. 307 220 R Al6 4,130,806 12/1978 Van Gerwen et al. 325 487 FOREIGN PATENT DOCUMENTS EXAMINER INITIAL DOCUMENT NUMBER DATE COUNTRY CLASS SUB-TRANSLATION CLASS AJ6 EP 0 785 635 A1 07/1997 ΕP HO4B 1/713 No C.C. AK6 EP 0 795 978 A2 09/1997 EΡ HO4L 5/06 N/A AL6 EP 0 837 565 A1 04/1998 ΕP H04B 1/69 N/A AM6 EP 0 862 274 A1 09/1998 EP нозм 1/06 N/A OTHER (Including Author, Title, Date, Pertinent Pages, etc.) Catalan, C. and Vilar, E., "Approach for satellite slant path remote sensing," Electronics Letters, IEE, Vol. 34, AN 6 No. 12, pp. 1238-1240 (June 11, 1998). O,C. Chan, P. et al., "A Highly Linear 1-GHz CMOS Downconversion Mixer," European Solid State Circuits Conference, IEEE Communication Society, pp. 210-213 (September 22-24, 1993). ΑO 6 Copy of Declaration of Michael J. Bultman filed in patent application Ser. No. 09/176,022, which is directed ΑP <u>6</u> to related subject matter. Copy of Declaration of Robert W. Cook filed in patent application Ser. No. 09/176,022, which is directed to AQ <u>6</u> related subject matter.

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

Copy of Declaration of Alex Holtz filed in patent application Ser. No. 09/176,022, which is directed to

DATE CONSIDERED

7/20/04

EXAMINER

AR

C. CHOW

<u>6</u>

related subject matter.



Page 7 of 53

	FORM PTO-1449						TY. DOCKET NO. /44.0260001			CATION N	0.	
	1	FORM E	PTO-1449			AF	PLICANT					1
INF	ORMATIO	N DIS	CLOSURE STA	TEME	<u>NT</u>		orrells et al.		GROUE			-
							nuary 3, 2000		2631	, 		j
				,	U.S. P	ATEN	T DOCUMENTS]
EXAMINER INITIAL	!		CUMENT ABER	DATI	E	NAM	AE	CL	ASS	SUB- CLASS	FILING DATE	
C.C.	AA7	4,14	2,155	02/1	979	Adad	chi	32	5	47]
, i	AB7	4,17	0,764	10/1	979	Salz	et al.	33	2	17		· .
	AC7	4,20	4,171	05/1	980	Sutp	hin, Jr.	32	8	167	REC	
	AD7	4,21	0,872	07/1	980	Greg	gorian	330	0	9		
	AE7	4,24	5,355	01/1	981	Pasc	oe et al.	45	5	326	1	E 2004
	AF7 4,253,066 02/1981					Fishe	er et al.	329	9	50	MARU	5 2004
	AG7 4,253,069 02/1981					Noss	sek	330	0	107		
	AH7 4,308,614 12/1981					Fishe	er et al.	370	0	119	Technology	Center 2600
¥	AI7 4,320,361 03/1982				Kikk	erf	333	2	16 R		_	
					FOREIGN	I PAT	ENT DOCUMENTS				- 	4
EXAMINER INITIAL	NER					COUNTRY	CL	ASS	SUB- CLASS	TRANSLATION		
C.C.	EP 0 874 499 A2 10/1998				10/1998		EP	но		25/06	N/A	_[
	AK7	ļ	743 231 A1		07/1997		FR	H0.		7/12	No	
	AL7	GB 2	2 161 344 A		01/1986		GB	HO	4B	7/12	N/A	
₩	AM7	GB 2	2 215 945 A		09/1989		GB	HO	4L	27/00	N/A	
		,	OTHE	R (Incl	uding Auth	or, Ti	tle, Date, Pertinent Page:	s, etc.)				1
			Conv. of Dod	lacatio	n of Pichard	ا د ام	oke filed in patent applicati	on Sar	No 10	/174 022 \	which is directed to	
dic.	AN	Z	related subje			. C. LU	oke med in parem applican	on ser.	140. 07	, 1 , 0 , 0 2 2 , 1	viller is directed to	
1	-			-								+
	AO .	Z	Copy of Ded directed to re	laratio elated	n of Charley subject mat	y D. M ter.	oses, Jr. filed in patent appl	ication :	Ser. No	. 09/176,02	22, which is	
	АР	Z					ker and David F. Sorrells, wi nich is directed to related su			Exhibit 1, fil	ed in patent	
	AQ 7 Dewey, R.J. and Collier, C.J., "Multi-Mode Radio Receiver," Electronics Division Colloquium on Digitally Implemented Radios, IEE, pp. 3/1-3/5 (October 18, 1985).											
	AR Z DIALOG File 347 (JAPIO) English Language Patent Abstract for JP 2-276351, published November 13, 1990, (1 Page).											
EXAMINER &	.CHO	w						DATE	CONS	IDERED 7	20/04]
conformance a	ind not co	nsider	e considered, v ed. Include co	whether	er or not cita this form wit	ntion is	s in conformance with MPEP t communication to Applica	609. D)raw lin	e through c	itation if not in	
P:\USERS\IASONG\1744\	026-1_1449.w	pd										



			• '				-	<i>:-</i> J			Page 8 of 53			
							TY. DOCKET NO. 44.0260001			ICATION N				
			PTO-1449				PLICANT rrells et al.							
INF	DRMATIO	N_DIS	CLOSURE STA	TEMEN	<u>rr</u>	FI	LING DATE		GROU					
					41.6.20		nuary 3, 2000		2631					
MINER	T	T			U.S. P	AIEN	T DOCUMENTS			1	1			
TIAL			CUMENT MBER	DATE		NAM	le	CL	ASS	SUB- CLASS	FILING DATE			
C.C.	AA8	 	20,536	03/19		Dietr		45		325				
	AB8 AC8		16,477	08/19		Gord	·	45		257	LEA			
+	AD8	-	55,401 56,558	10/19			a et al. n et al.	37 36		724	RECE			
	AE8	_	50,867	11/19		Gone		36		158				
+-	AF8	+	33,132	12/19		Colli		45		52	MAR 0 5			
	AG8		55,217	12/19		_	er et al.	33		165	111/11/0			
	AH8	+	70,572	01/19			nd et al.	30			dobnology			
	AIB	1	39,579	06/19		Stein		30		353	echnology (
	11,00	1 -75		30,			ENT DOCUMENTS	100		1030	<u> </u>			
MINER		DOG	CUMENT NUM	BER	DATE		COUNTRY	CL	ASS	SUB- CLASS	TRANSLATION			
C.C.	AJ8	JP 2	-39632		02/1990		JP .	но	48	7/12	No			
1	AK8	JP 2	-131629		05/1990		1P	но	4B	7/12	No			
	AL8	JP 2	-276351	\neg	11/1990		JP	но	4L	27/22	No			
V	AM8	wo	80/01633 A1		08/1980		PCT	но	4J	1/08	N/A			
			OTHER	(Inclu	dina Auth	or. Tit	le, Date, Pertinent Pag	es. etc.)	•		<u> </u>			
				•		,	.,	, -,,						
C.C.	AN	<u>8</u>	DIALOG File Page)	347 (JA	APIO) Englis	h Lan	guage Patent Abstract for	JP 2-131	1629, р	ublished Ma	y 21, 1990, (1			
	AO	<u>8</u>	DIALOG File Page).	347 (J <i>A</i>	APIO) Englis	ih Lan	guage Patent Abstract for	· JP 2-396	532, pu	blished Febr	υαry 8, 1990, (1			
	AP .	<u>8</u>	DIALOG File December 26	LOG File 348 (European Patents) English Language Patent Abstract for EP 0 785 635 A1, published ember 26, 1996, (3 Pages).										
	AQ	<u>8</u>	DIALOG File 18, 1981, (2	348 (Eu Pages).	uropean Pal	ropean Patents) English Language Patent Abstract for EP 35166 A1, published February								
	AR	8	"DSO takes sampling rate to 1 Ghz," Electronic Engineering, Morgan Grampian Publishers, Vol. 59, No. 723, pp. 77 and 79 (March 1987).											
AMINER C	CHOL	J					-,	DATE		IDERED 7	120/04			
				hathar	or not situati	on ie	in conformance with MPE	D 400 D		41 . 1				



								•	. /			Page 9 of 53	•
								TY. DOCKET NO. 44.0260001			CATION N	0.	
		E	FORM	PTO-1449			_	PLICANT		1 727 -			
	INFO	ORMATIO	N_DIS	CLOSURE STA	TEME	NT		rrells et al.		T			
								LING DATE nuary 3, 2000		GROUI 2631	•		
						U.S. P.	ATEN	T DOCUMENTS					
EXAMINI INITIAL	ER			CUMENT MBER	DATI	=	NAM	NE .	CL	ASS	SUB- CLASS	FILING DATE	
Ċ.(C.	AA9	_	2,255	07/1	983	Del	Giudice	45	5	328		
1		A89	4,43	30,629	02/1	984	Betz	et al.	33	3	165		
		AC9	4,44	16,438	05/1	984	Cha	ng et al.	32	8	127		
		AD9	4,45	6,990	06/1	984	Fishe	er et al.	37	0	119	RECE	IVED
		AE9	4,47	2,785	09/1	984	Kasu	ga	36	4	718		e or the last
		AF9	4,47	9,226	10/1	984	Prab	hu et al.	37	5	1	MAR 0 5	2004
		AG9	 	1,490	11/1		Huni		33		41	WIAIT 0 9	4001
J	,	AH9		31,642	11/1		Hans		37		9	debeology (antar OS
		Al9	4,48	15,488	11/1		Hou		45	5	327	echnology C	CIILGI 200
FV4 141511	-	т	Τ-			FOREIGN	PAT	ENT DOCUMENTS			 		
EXAMINI	EK		DO	CUMENT NUM	BER	DATE		COUNTRY	CL	ASS	SUB- CLASS	TRANSLATION	
۲.	<u>c</u> .	AJ9	wo	94/05087 A1		03/1994		РСТ	но	3M	1/00	N/A	
		AK9	 	96/02977 A1		02/1996		PCT)4B	1/26	N/A	
		AL9	_	96/08078 A1		03/1996		PCT		3D	3/00	N/A	
₩		AM9	wo	96/39750 A1		12/1996		PCT		4B	1/26	N/A	
	-	,		OTHER	(Incl	uding Auth	or, Ti	tle, Date, Pertinent Pag	es, etc.)				
۵(c.	AN	9	Erdi, G. and I Ratio," IEEE J	Henne	use, P.R., "A of Solid-Sta	Preci	sion FET-Less Sample-and cuits, IEEE, Vol. SC-13, No	l-Hold wi o. 6, pp. 8	th High 364-873	Charge-to- (December	Droop Current - 1978).	
		AO	9	Faulkner, N.I Microwave O 208-213 (Ma	scillat	ors," IEEE Tro	ubhar ansaci	monic Sampling for the M lions on Instrumentation ar	leasurem nd Measi	ent of Si urement,	hort Term S . IEEE, Vol. I	tability of M-32, No. 1, pp.	
		Faulkner, N.D. et al., "Sub-Harmonic Sampling for the Accurate Measurement of Frequency Stability of Microwave Oscillators," CPEM 82 Digest: Conference on Precision Electromagnetic Measurements, IEEE, pp. M-10 and M-11 (1982).											
		Faulkner, N.D. and Vilar, E., "Time Domain Analysis of Frequency Stability Using Non-Zero Dead-Time Counter Techniques," CPEM 84 Digest Conference on Precision Electromagnetic Measurements, IEEE, pp. 81-82 (1984).											
		Filip, M. and Vilar, E., "Optimum Utilization of the Channel Capacity of a Satellite Link in the Presence of Amplitude Scintillations and Rain Attenuation," IEEE Transactions on Communications, IEEE Communications Society, Vol. 38, No. 11, pp. 1958-1965 (November 1990).											
		AR	2	Society, Vol.	38, No	э. 11, рр. 19	/30-1	965 (November 1990).				.	
EXAMINI	ER C	AR . CHOU		Society, Vol.	38, No	э. 11, pp. 19 	/30-1	965 (November 1990).	DATE	CONSI	DERED 7	20/04	

MAR D I 2004 W

Page 10 of 53

				·	_					,	·	Page 10 of 53	7
								TY. DOCKET NO. 44.0260001			CATION NO	0	
		F	ORM E	PTO-1449			AP	PLICANT					1
	INFO	RMATIO	DIS	CLOSURE STA	TEME	<u>T1</u>	-	rrells et al. LING DATE		GROUE			-
								nuary 3, 2000		2631	· · · · · · · · · · · · · · · · · · ·]
						U.S. P.	ATEN	T DOCUMENTS]
EXAMIN INITIAL				CUMENT ABER	DATE		NAM	AE	CL	ASS	SUB- CLASS	FILING DATE	
C.	. ح	AA10	4,50	4,803	03/1	985	Lee e	et al.	33	2	31 R]
		AB10	4,51	7,519	05/1	985	Muk	aiyama	32	9	126]
		AC10	4,51	7,520	05/1	985	Oga	wa	32	9	145	h	1. /F-
		AD10	4,51	8,935	05/1	985	van l	Roermund	33	3	173	エトヘト	1V -
		AE10	4,52	1,892	06/1	985	Vano	e et al.	37	5	88] " ::
		AF10	4,56	3,773	07/1	986	Dixo	n, Jr. et al.	45	5	327	MAR 0 5	2004
		AG10	4,57	7,157	03/1	986	Reed		32	9	50	3111111 0.0] = 00 .
		AH10	4,58	3,239	04/1	986	Vanc	:е	37	5	94 -	Ahnnian C	hatar aca
1	<u>/</u>	AJ10	4,59	1,736	05/1	986	Hira	o et al.	30	7	267	echnology C	Jenner 200
						FOREIGN	PAT	ENT DOCUMENTS					1
EXAMIN INITIAL			DOG	CUMENT NUM	BER	DATE		COUNTRY	CL	ASS	SUB- CLASS	TRANSLATION	
2	C, C. AJ10 WO 97/38490 A1 10/1993					10/1997		PCT	но	зк	7/00	N/A]
						01/1998		РСТ	но)4L	27/26	N/A	
		AL10	wo	98/24201 A1		06/1998		PCT	но)4H	1/00	N/A	
0	V	AM10	EP 0	099 265 A1		01/1984		EP	но	3D	3/04	N/A	
				OTHE	t (Incl	uding Auth	or, Ti	tle, Date, Pertinent Page:	, etc.)				
۵	رc.	АН	10	Fukahori, K., IEEE, Vol. SC	"A CA -19, N	AOS Narrow Io. 6, pp. 92	/-Band 26-932	l Signaling Filter with Q Red 2 (Docember 1984)	uction,	," IEEE Jo	ournal of So	lid-State Circuits,	
		AO	<u>10</u>	Fukuchi, H. c H: Microwav	ind Ot es, Ani	su, Y., "Avai lennas and F	ilable i	time statistics of rain attenu nation, IEE, Vol. 135, Pt. H, I	ation o No. 6, ₍	n earth- pp. 387	-space path -390 (Decer	,* IEE Proceedings- nber 1988).	
		AP Gibbins, C.J. and Chadha, R., "Millimetre-wave propagation through hydrocarbon flame," <i>IEE Proceedings</i> , IEE, Vol. 134, Pt. H, No.2, pp. 169-173 (April 1987).											
,		AQ 10 Gilchrist, B. et al., "Sampling hikes performance of frequency synthesizers," Microwaves & RF, Hayden Publishing, Vol. 23, No. 1, pp. 93-94 and 110 (January 1984).											
	/	AR	<u>10</u>	Gossard, E.E Science, Ame	., °Cle erican	ar weather r Geophysica	neteo I Unio	rological effects on propago n, Vol. 16, No. 5, pp. 589-6	tion at i08 (Se	frequer ptembe	ncies above r - October	1 Ghz," Radio 1981).	
EXAMIN	VER (CHO	961	<u> </u>					DAT	E CONS	IDERED Z	20/04	1
									Щ.			-, - F	į.



EXAMINER INITIAL

.c.

FORM PTO-1449

INFORMATION DISCLOSURE STATEMENT

DOCUMENT

NUMBER

4,602,220

4,603,300

4,612,464

4,612,518

4,616,191

4,621,217

4,628,517

4,634,998

4,648,021

AA11

AB11

AC11

AD11

AE11

AF11

AG11

AH11

AII I

DATE

07/1986

07/1986

09/1986

09/1986

10/1986

11/1986

12/1986

01/1987

03/1987

Page 11 of 53 ATTY. DOCKET NO. APPLICATION NO. 1744.0260001 09/476,093 APPLICANT Sorrells et al FILING DATE GROUP January 3, 2000 U.S. PATENT DOCUMENTS NAME **CLASS** SUB-FILING DATE CLASS Kurihara 331 19 Welles, II et al. 329 50 Ishikawa et al. 307 496 Gans et al. 332 21 Galani et al. 331 4 MAR 0 5 2004 Saxe et al. 315 1 Schwarz et al. 375 40 echnology Center 2600 Crawford 331 1 A Alberkrack 363

FOREIGN PATENT DOCUMENTS														
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB- CLASS	TRANSLATION							
Cic.	AJ11	EP 0 560 228 A1	09/1993	EP	H03D	7/12	N/A							
	AK11	FR 2 245 130	04/1975	FR	нозк	5/13	Yes (See AP50)							
	AL11	DE 35 41 031 A1	05/1986	DE	H03D	3/00	Yes (See AR50)							
₩	AM11	EP 0 732 803 A1	09/1996	EP	H03D	3/00	Yes (See AN51)							

OTHER (Including Author, Title, Date, Pertinent Pages, etc.) Gregorian, R. et al., "Switched-Capacitor Circuit Design," Proceedings of the IEEE, IEEE, Vol. 71, No. 8, pp. AN 11 c.c. 941-966 (August 1983). Groshong et al., "Undersampling Techniques Simplify Digital Radio," Electronic Design, Penton Publishing, AO <u>11</u> pp. 67-68, 70, 73-75 and 78 (May 23, 1991). Grove, W.M., "Sampling for Oscilloscopes and Other RF Systems: Dc through X-Band," IEEE Transactions on Microwave Theory and Techniques, IEEE, pp. 629-635 (December 1966). ΑP <u>11</u> Haddon, J. et al., "Measurement of Microwave Scintillations on a Satellite Down-Link at X-Band," Antennas AQ 11 and Propagation, IEE, pp. 113-117 (1981). Haddon, J. and Vilar, E., "Scattering Induced Microwave Scintillations from Clear Air and Rain on Earth Space Paths and the Influence of Antenna Aperture," *IEEE Transactions on Antennas and Propagation*, IEEE, Vol. AP-34, No. 5, pp. 646-657 (May 1986). AR 11

EXAMINER C.CHOW

DATE CONSIDERED 760/04

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

P:\USERS\IASONG\1744\026-1_1449.wpd



Page 12 of 53 ATTY. DOCKET NO. APPLICATION NO. 1744.0260001 09/476,093 FORM PTO-1449 APPLICANT Sorrells et al INFORMATION DISCLOSURE STATEMENT FILING DATE GROUP January 3, 2000 U.S. PATENT DOCUMENTS **EXAMINER** INITIAL DOCUMENT DATE NAME CLASS FILING DATE SUB-NUMBER CLASS C.C. 03/1987 AA12 4,651,034 Sato 307 556 AB12 06/1987 4,675,882 Lillie et al. 375 80 AC12 08/1987 4,688,253 Gumm 381 12/1987 AD12 4,716,376 Daudelin 329 107 AE12 4,716,388 12/1987 Jacobs 333 173 AF12 4,718,113 01/1988 Rother et al. 455 209 02/1988 AG12 4,726,041 Prohaska et al. 375 91 03/1988 AH12 4,733,403 375 103 Simone ,Te¢hnology C¢nter 2600 All2 4,734,591 03/1988 Ichitsubo 307 FOREIGN PATENT DOCUMENTS EXAMINER INITIAL DOCUMENT NUMBER DATE COUNTRY CLASS SUB-TRANSLATION CLASS AJ12 DE 197 35 798 C1 07/1998 DE HO4L 27/00 dic. (See AP51) AK12 WO 98/40968 A2&A3 09/1998 PCT H03L 7/08 N/A AL12 EP 0 529 836 A1 03/1993 ЕP H03L 7/089 N/A EP 0 795 955 A2&A3 09/1997 AM12 FΡ H03D 13/00 N/A OTHER (Including Author, Title, Date, Pertinent Pages, etc.) Hafdallah, H. et al., "2-4 Ghz MESFET Sampler," Electronics Letters, IEE, Vol. 24, No. 3, pp. 151-153 ΑN 12 (February 4, 1988). C.C. Herben, M.H.A.J., *Amplitude and Phase Scintillation Measurements on 8-2 km Line-Of-Sight Path at 30 Ghz,* Electronics Letters, IEE, Vol. 18, No. 7, pp. 287-289 (April 1, 1982). ΑO 12 Hewitt, A. et al., "An 18 Ghz Wideband LOS Multipath Experiment," International Conference on ΑP Measurements for Telecommunication Transmission Systems - MTTS 85, IEE, pp. 112-116 (November 27-28, <u>12</u> 1985) Hewitt, A. et al., "An Autoregressive Approach to the Identification of Multipath Ray Parameters from Field Measurements," *IEEE Transactions on Communications*, IEEE Communications Society, Vol. 37, No. 11, pp. ΑQ <u>12</u> 1136-1143 (November 1989). Hewitt, A. and Vilar, E., "Selective fading on LOS Microwave Links: Classical and Spread-Spectrum Measurement Techniques," *IEEE Transactions on Communications*, IEEE Communications Society, Vol. 36, No. 7, pp. 789-796 (July 1988). AR <u>12</u>

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in

DATE CONSIDERED

conformance and not considered. Include copy of this form with next communication to Applicant. PAUSEBSAUSONG/1744/024-1_1447-opt

r.cHow

EXAMINER

Page 13 of 53

		-				· · · · · · · · · · · · · · · · · · ·	1,	W DOGWER WO		1		Page 13 of 5	3 7
								TY. DOCKET NO.			ICATION N 76,093	ю.	
	INFORMA			PTO-1449 CLOSURE STA	TEMEI	NT		PLICANT rells et al.					
						<u> </u>		ING DATE		GROU	P		
						II C D		DOCUMENTS	······································	2631			
EXAMINE	R		Г			U.S. F.	T TEN	DOCOMENTS	T				
INITIAL			NUM		DATE		NAM		C	LASS	SUB- CLASS	FILING DATE	
C.C		413		7,969	04/1		Steel	 		75	67		_
+		313		3,858	05/1		Evera	rd		30	10	h-	ᆋᇝ ᄼᅩᅳ
		C13		5,463	05/1		Lu	 		58	23	HEC	目IVED
		013		1,468	06/1		Agost	on		28	133 7		7. "
		13		7,538	07/1		Zink			81		MAR	0 \$ 2004
		-13 G13		8,187	08/1		Marsh			70	69.1	100	
		313		9,612 5,463	09/1 11/1		Janc e	koshi et al.		28	167	Tachnologi	Villoptor 260
-		13		1,584	12/1		 	enkamp, Jr.		75 64	525	<u>recunolodi</u>	Çenter 260
		10	 ,,,,	1,504	12/1			NT DOCUMENTS	13	04	1 323		
XAMINE	R		Ι			I OKLIOI		AT DOCOMETTS		····	1	-1	
NITIAL			<u> </u>	CUMENT NUME		DATE		COUNTRY	c	LASS	SUB- CLASS	TRANSLATION	4
<u> </u>		13		817 369 A2&A	1.3	01/1998		EP		03D	7/00	N/	
		(13		91/18445 A1		11/1991		PCT .		03D	7/18	N/	
		.13		99/23755 A1		05/1999		PCT		03D	7/16	N/	_
<u> </u>	^_	A13	JP 56	5-114451 —————		09/1981		JP		04B	7/02	N	10
		-	-	OTHER	(Incl	uding Auth	or, Titl	e, Date, Pertinent F	ages, etc.)			4
c.c	AN		<u>13</u>	Hospitalier, E. IEE, Vol. VII, p	, "Inst p. 22	truments for -23 (1904).	r Record	ling and Observing R	apidly Vary	ing Phen	omena," Sc	ience Abstracts,	
1	·	\dashv			·						-		_
_	AC	,	13	Howard, I.M. Detection," Th Australia, pp.	e Inst	itution of En	ngineers	modulating High Fre Australia Vibration a -20, 1990).	quency Res nd Noise Co	onance S onference	Signals for E e, Institution	Bearing Fault n of Engineers,	
	АР	Hu, X., A Switched-Current Sample-and-Hold Amplifier for FM Demodulation, Thesis for Master of Applied Science, Dept. of Electrical and Computer Engineering, University of Toronto, UMI Dissertation Services, pp. 1-64 (1995).											
·	AG		13					of Microwave Integra IEEE, pp. 507-510 (1		s Using A	n Optical P	hase-Locking and	d
V	AR		<u>13</u>	Hurst, P.J., "Sh Transactions o 1991).	nifting on Circ	the Freque cuits and Sys	ency Res stems, I	ponse of Switched-C EEE Circuits and Syste	apacitor Fill ams Society	ers by N , Vol. 38,	onuniform , No. 1, pp.	Sampling," IEEE 12-19 (January	
	i								DAT	E CONSI	MEDED -	2/ / /	-1
XAMINER	R C.Ch	lou	,							E CONS	DEKED -	1/20/04	ŀ

Page 14 of 53

								-			Page 14 of 53	-
		-					TY. DOCKET NO. 44.0260001		APPLICAT		ο.	
	I	FORM I	PTO-1449				PLICANT		09/476,0	,,,,		1
IN	FORMATIO	N DIS	CLOSURE STA	TEME	NT		rrells et al.					
							LING DATE		GROUP	_		
							nuary 3, 2000		2631			4
EXAMINER		Т		т	U.S. P	ATEN	DOCUMENTS				- ₁	-
INITIAL			CUMENT MBER	DAT	E	NAM	E	CLA		JB- LASS	FIUNG DATE	
c.c.	AA14	4,80	1,823	01/1	989	Yoko	yama	. 307	7 35	53]
	AB14		06,790	02/1	989	Sone		307	7 35	3		<u> </u>
	AC14	1	10,904		989	Craw		307			RECE	IVED
	AD14		0,976		989		ey et al.	331		7 R	I. I. O.	+1 M (2.1.)
	AE14	_	1,362		989		r, Jr. et al.	375			NACO DE CO	
	AF14	1	9,252	04/1		†	topher	375			MAR 0	5 2004
	AG14	1	13,445	05/1		Buch		341			. , 	Į
— <u></u>	AH14		52,121		989	 	schild et al.	333		3	chnology	Center 260
Υ	Al14	4,86	8,654	09/1		Juri e		358	3 13	3	1 31	[
FV 4 1 / 11 1 = -	- ,	т			FOREIGN	I PATE	NT DOCUMENTS	·····				ł
EXAMINER INITIAL		DOG	CUMENT NUM	BER	DATE		COUNTRY	CLA		IB- ASS	TRANSLATION:	
C.C.	AJ14		-32556	•	02/1996		IP qu	H04	4L 1/	0,4	No	
	AK14	╄	-139524		05/1996		JP	H03		00	Но	
	AL14		9-144249		08/1984		JP	H04		/00	No	
$\underline{\hspace{1cm}}$	AM14	JP 6	3-54002		03/1988		JP	H03	3B 19	/114	No	
			OTHER	(Incl	uding Auth	or, Tit	le, Date, Pertinent Pa	ges, etc.)				
	1 1											
	AN	14					ulse width on the freque					
C.C.			circuit," IEE P	roceed	lings Circuits	s, Devi	ces and Systems, IEE, Vol	l. 141, No.	4, pp. 328	-336 (A	ugust 1994).	
L,C,												
	AO	<u>14</u>	Fundamental				oboscopic' Oscilloscope ew, Philips Research Lab					
			1950).									
İ												
1	AP	14	Janssen, J.M.	L. and	l Michels, A	J., "An " Philic	Experimental 'Strobosco s Technical Review, Phili	pic' Oscillo	scope for F	requen	cies up to about	
			73-82 (Septe				·		ii Euboruioi	103, 101	. 12,110. 0, рр.	
1			londral V E	at al	*Donnlar Pr	ofiler f	or Communication Satel	lites * Em-	uant Hare	ichoso-	r on 111 114	
Ī	AQ	<u>14</u>	(May-June 19		Doppler Pro	OTHES T	or Communication Sate	littes," Frequ	venz, merai	Jsberge	r, pp. 111-110	
				•							1	
					 							
			 V-1-L C V	•4 E	O:							
	AR	<u>14</u>					oread Spectrum System f EEE Communications Soc				ence of In-bana	
	1 1					•		,,,,	•	•		
V] [•									
EXAMINER (C,C <i>H</i> ^	161						DATE	CONSIDER	ED 7,	20/04	
	C.CHa			hethe	r or not citat	tion is	in conformance with MP			1	AO/o4	

Page 15 of 53

				•	•				· <i>)</i>			Page 15 of 53	7
								TTY. DOCKET NO. 744.0260001			ICATION NO	ο.	
		F	ORM F	TO-1449				PLICANT		1 201 2	. 3 ,	 	1
	INFO	RMATION	DIS	CLOSURE STA	TEME	<u>TV</u>		orrells et al.					4
								LING DATE nuary 3, 2000		GROU: 2631			
						U.S. P		T DOCUMENTS	·····	12002			1
XAMINI	ER		DOC	CUMENT	DATI		NAM			CLASS	SUB- CLASS	FILING DATE	
٥.٥	۲,	AA15	-	0,659	09/1	989	Oish	ni et al.		375	82		1
7		AB15	Ŧ	1,987	10/1		Kaw			332	100		1
		AC15		5,587	12/1		Wieg	gand et al.		42_	14	DEO	
		AD15	4,88	5,756	12/1	989	Font	anes et al.		375	82	NEC	EIVET
		AE15	4,88	8,557	12/1	989	Puck	ette, IV et al.		329	341]
		AF15	4,89	0,302	12/1	989	Muil	wijk	;	375	80	MAR	5 2004
	AG15 4,893,316 01/1990						Janc	et al.	;	375	44		
	AH15 4,893,341 01/1990						Geh	ring	;	381	7	Technology	Center 26
	A115 4,894,766 01/1990						De A		13	363	159	100miology	Tochler 201
		FOREIC					I PAT	ENT DOCUMENTS			· · · · · · · · · · · · · · · · · · ·	1.	4
EXAMINI NITIAL	EK		DOC	CUMENT NUM	BER	DATE		COUNTRY		CLASS	SUB- CLASS	TRANSLATION	
C	<u>c, </u>	AJ15	<u> </u>	-237276		08/1994		JP		104L	27/20	No	
		AK15	JP 8	-23359		01/1996		JP		H04L	27/20	No	-
		AL15									-	Yes No Yes	
<u>\</u>	/	AM15										No]
				OTHE	(Incl	uding Auth	or, Ti	tle, Date, Pertinent P	ages, etc	.)]
C. 6	Ĉ.	AN .	<u>15</u>		on An	tennas and l	Propa	n Method for Troposph gation, IEEE Antennas a					<u>.</u>
		AO _.	<u>15</u>					mpling reduces data-ac , pp. 217-222, 224, 22				ntions," EDN,	
		Lam, W.K. et al., "Measurement of the Phase Noise Characteristics of an Unlocked Communications Channel Identifier," Proceedings Of the 1993 IEEE International Frequency Control Symposium, IEEE, pp. 283-288 (June 2-4, 1993).											
		AQ	Lam, W.K. et al., "Wideband sounding of 11.6 Ghz transhorizon channel," Electronics Letters, IEE, Vol. 30, No. 9, pp. 738-739 (April 28, 1994).										
		AR	Larkin, K.G., "Efficient demodulator for bandpass sampled AM signals," Electronics Letters, IEE, Vol. 32, No. 2, pp. 101-102 (January 18, 1996).										
EXAMIN	IER _	.CH6	ω						DA	TE CONS	IDERED 7	20/04	
								in conformance with M		Draw lin	e through c	itation if not in	1
conform	ance a		nsider					t communication to App		D. 47 III			J

Page 16 of 53

	FORM PTO-1449						TTY. DOCKET NO. 744.0260001			CATION NO).	
	P	ORM	PTO-1449			AI	PPLICANT					1
INFO	DRMATION	N DIS	CLOSURE ST	TEME	NT.	\vdash	orrells et al.					j
					<u></u> -		ILING DATE anuary 3, 2000		GROUP 2631			
		,	•		U.S. P	ATEN	T DOCUMENTS]
EXAMINER INITIAL			CUMENT MBER	DAT		NAA	ΛE	CL	ASS	SUB- CLASS	FILING DATE	
d.C.	AA 16	4,89	96,152	01/1	990	Tien	nann	34	0	853]
	AB16	4,90	02,979	02/1	990	Puck	cette, IV	32	9	343]
	AC16	4,90	08,579	03/1	990	Taw	fik et al.	32	8	167	BECE	IVED
	AD16	4,91	10,752	03/1	990	Yest	er, Jr. et al.	37	5	75	ILCE	1 17 To 3 200
	AE16 4,914,405 04/1990						ls	33	1	25	MAD-0	E 2004
	AF16 4,920,510 04/1990						derowicz et al.	36	4	825	WARU	5 2004
	AG16 4,922,452 05/1990					Larse	en et al.	36	5	45		0 1 0000
	AH16 4,931,921 06/1990					And	erson	36	3	163	lechnology	Center 2600
V	Al16	4,94	44,025	07/1		-	ring et al.	45	5	207	1	,
	T	T			FOREIGN	PAT	ENT DOCUMENTS			r	1	
EXAMINER INITIAL		DO	CUMENT NUM	BER	DATE		COUNTRY	CL	ASS	SUB- CLASS	TRANSLATION	·
ori.	AJ16										Yes No	ĺ
7	AK16					•		1			Yes No	
	AL16						1				Yes	
	AM16	╁									No Yes	
V	1		A=115								No	
	1 1		OTHER	linci	vaing Auth	or, 11	ille, Date, Pertinent Pages	, etc.)				
CvC.	AN	<u>16</u>					e Variant Structure of Microv nference & Exhibition, IEEE, p					
	AO	<u>16</u>					gorithm to Identify Multipath ber 24, 1987).	Compe	onents,"	Electronics (Letters, IEE, Vol.	
	AP	Lesage, P. and Audoin, C., "Effect of Dead-Time on the Estimation of the Two-Sample Variance," IEEE 16 Transactions on Instrumentation and Measurement, IEEE Instrumentation and Measurement Society, Vol. IM- 28, No. 1, pp. 6-10 (March 1979).										
	AQ	Liechti, C.A., "Performance of Dual-gate GaAs MESFET's as Gain-Controlled Low-Noise Amplifiers and High-Speed Modulators," IEEE Transactions on Microwave Theory and Techniques, IEEE Microwave Theory and Techniques Society, Vol. MTT-23, No. 6, pp. 461-469 (June 1975).										
	AR .	<u>16</u>					sample Per Second Transien iences Society, Vol. NS-26, I					
EXAMINER C	CHO	W						DATE	CONSI	DERED 7/	20/04	
	nd not co	nsider					in conformance with MPEP t communication to Applican		raw line	through cit	ation if not in	

MAR 0 4 2004 LU

Page 17 of 53 ATTY. DOCKET NO. APPLICATION NO. 1744.0260001 09/476,093 FORM PTO-1449 APPLICANT Sorrells et al. INFORMATION DISCLOSURE STATEMENT FILING DATE GROUP January 3, 2000 **U.S. PATENT DOCUMENTS** EXAMINER INITIAL **DOCUMENT** DATE NAME CLASS SUB-FILING DATE NUMBER CLASS Z.C. AA17 4,955,079 09/1990 Connerney et al. 455 325 AB17 4,965,467 10/1990 Bilterijst 307 352 AC17 10/1990 4,967,160 Quievy et al. 328 16 AD17 4,970,703 11/1990 Hariharan et al. 367 138 4,982,353 **AE17** 01/1991 Jacob et al. 364 724.10 AF17 4,984,077 01/1991 Uchida 358 140 AG17 4,995,055 02/1991 5 2004 Weinberger et al. 375 5 **AH17** 5,003,621 03/1991 Gailus 455 209 AI17 5,005,169 04/1991 Bronder et al. 370 76 Center 2600 FOREIGN PATENT DOCUMENTS **EXAMINER** INITIAL DOCUMENT NUMBER DATE COUNTRY CLASS SUB-TRANSLATION CLASS AJ17 No AK17 Yes Nο AL17 Yes No **AM17** Yes No OTHER (Including Author, Title, Date, Pertinent Pages, etc.) Liou, M.L., "A Tutorial on Computer-Aided Analysis of Switched-Capacitor Circuits," Proceedings of the IEEE, IEEE, Vol. 71, No. 8, pp. 987-1005 (August 1983). AN <u>17</u> C.C. Lo, P. et al., "Coherent Automatic Gain Control," IEE Colloquium on Phase Locked Techniques, IEE, pp. 2/1-AO 17 2/6 (March 26, 1980). Lo, P. et al., "Computation of Rain Induced Scintillations on Satellite Down-Links at Microwave Frequencies," Third International Conference on Antennas and Propagation (ICAP 83), pp. 127-131 (April 12-15, 1983). ΑP <u>17</u> Lo, P.S.L.O. et al., "Observations of Amplitude Scintillations on a Low-Elevation Earth-Space Path," *Electronics Letters*, IEE, Vol. 20, No. 7, pp. 307-308 (March 29, 1984). AQ 17 Madani, K. and Aithison, C.S., "A 20 Ghz Microwave Sampler," IEEE Transactions on Microwave Theory and Techniques, IEEE Microwave Theory and Techniques Society, Vol. 40, No. 10, pp. 1960-1963 (October AR 17 DATE CONSIDERED 7/20/04 **EXAMINER** C. CHOW **EXAMINER:** Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

P:\USERS\LASONG\1744\026-1_1449.wpd



Page 18 of 53 ATTY. DOCKET NO. APPLICATION NO. 1744.0260001 09/476,093 FORM PTO-1449 APPLICANT Sorrells et al. INFORMATION DISCLOSURE STATEMENT FILING DATE GROUP January 3, 2000 **U.S. PATENT DOCUMENTS EXAMINER** DOCUMENT INITIAL DATE NAME CLASS SUB-FILING DATE NUMBER CLASS C.C. AA18 5,006,810 04/1991 328 Popescu 167 AB18 5,010,585 04/1991 Garcia 455 118 RECHIVED AC18 5,014,304 05/1991 Nicollini et al. 379 399 AD18 5,015,963 05/1991 329 Sutton 361 MAR 015 2004 AE18 5,017,924 05/1991 Guiberteau et al. 342 195 AF18 5,020,149 05/1991 Hemmie 455 325 echnology Center 2600 AG18 5,020,154 05/1991 Zierhut 455 608 AH18 5,052,050 09/1991 Collier et al. 455 296 Al18 5,065,409 11/1991 Hughes et al. 375 91 FOREIGN PATENT DOCUMENTS **EXAMINER** INITIAL DOCUMENT NUMBER DATE COUNTRY CLASS SUB-TRANSLATION CLASS AJ18 Yes ,C No AK18 Yes No AL18 Yes No **AM18** Yes No OTHER (Including Author, Title, Date, Pertinent Pages, etc.) Marsland, R.A. et al., "130 Ghz GaAs monolithic integrated circuit sampling head," Appl. Phys. Lett., American Institute of Physics, Vol. 55, No. 6, pp. 592-594 (August 7, 1989). ΑN 18 C.C. Martin, K. and Sedra, A.S., "Switched-Capacitor Building Blocks for Adaptive Systems," IEEE Transactions on Circuits and Systems, IEEE Circuits and Systems Society, Vol. CAS-28, No. 6, pp. 576-584 (June 1981). ΑO <u>18</u> Marzano, F.S. and d'Auria, G., "Model-based Prediction of Amplitude Scintillation variance due to Clear-Air Tropospheric Turbulence on Earth-Satellite Microwave Links," *IEEE Transactions on Antennas and Propagation*, IEEE Antennas and Propagation Society, Vol. 46, No. 10, pp. 1506-1518 (October 1998). ΑP 18 Matricciani, E., "Prediction of fade durations due to rain in satellite communication systems," Radio Science, AQ 18 American Geophysical Union, Vol. 32, No. 3, pp. 935-941 (May-June 1997). McQueen, J.G., "The Monitoring of High-Speed Waveforms," *Electronic Engineering*, Morgan Brothers Limited, Vol. XXIV, No. 296, pp. 436-441 (October 1952). AR 18 **EXAMINER** DATE CONSIDERED C. CHOW **EXAMINER:** Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in

conformance and not considered. Include copy of this form with next communication to Applicant.



EXAMINER

EXAMINER INITIAL

C.C.

FORM PTO-1449

INFORMATION DISCLOSURE STATEMENT

DOCUMENT

NUMBER

5,083,050

5,091,921

5,095,533

5,095,536

5,111,152

5,113,094

5,113,129

5,122,765

5,124,592

DOCUMENT NUMBER

AA19

AB19

AC19

AD19

AE19

AF19

AG19

AH19

Al19

AJ19

AK19

AL19

AM19

ΑN

19

DATE

01/1992

02/1992

03/1992

03/1992

05/1992

05/1992

05/1992

06/1992

06/1992

DATE

Page 19 of 53 ATTY. DOCKET NO. APPLICATION NO. 1744.0260001 09/476,093 APPLICANT Sorrells et al. FILING DATE GROUP January 3, 2000 **U.S. PATENT DOCUMENTS** NAME CLASS SUB-FILING DATE CLASS Vasile 307 529 Minami 375 88 455 245 Loper et al. 455 324 Loper 5 2004 MAR Makino 329 300 Grace et al. 307 529 Technology Center 2600 Hughes 323 316 Pataut 332 105 Hagino 307 520 **FOREIGN PATENT DOCUMENTS** COUNTRY CLASS TRANSLATION SUB-CLASS Yes No Yes No Yes Νo Yes No OTHER (Including Author, Title, Date, Pertinent Pages, etc.) Merkelo, J. and Hall, R.D., "Broad-Band Thin-Film Signal Sampler," IEEE Journal of Solid-State Circuits, IEEE, Vol. SC-7, No. 1, pp. 50-54 (February 1972).

M.C. Merlo, U. et al., "Amplitude Scintillation Cycles in a Sirio Satellite-Earth Link," Electronics Letters, IEE, Vol. 21, No. 23, pp. 1094-1096 (November 7, 1985). AO <u>19</u> Morris, D., "Radio-holographic reflector measurement of the 30-m millimeter radio telescope at 22 Ghz with a cosmic signal socrete," Astronomy and Astrophysics, Springer-Verlag, Vol. 203, No. 2, pp. 399-406 ΑP <u>19</u> (September (II) 1988). Moulsley, T.J. et al., "The efficient acquisition and processing of propagation statistics," Journal of the Institution of Electronic and Radio Engineers, IERE, Vol. 55, No. 3, pp. 97-103 (March 1985). ΑQ 19 Ndzi, D. et al., "Wide-Band Statistical Characterization of an Over-the-Sea Experimental Transhorizon Link," AR <u> 19</u> IEE Colloquium on Radio Communications at Microwave and Millimetre Wave Frequencies, IEE, pp. 1/1-1/6 (December 16, 1996). EXAMINER DATE CONSIDERED

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in

conformance and not considered. Include copy of this form with next communication to Applicant. P:\USERS\JASONG\1744\026-1_1449.wpd

C.CHOW



P:\USERS\IASONG\1744\026-1_1449.wpd

Page 20 of 53 ATTY. DOCKET NO. APPLICATION NO. 1744.0260001 09/476,093 FORM PTO-1449 APPLICANT Sorrells et al. INFORMATION DISCLOSURE STATEMENT FILING DATE GROUP January 3, 2000 2631 **U.S. PATENT DOCUMENTS** EXAMINER INITIAL DOCUMENT DATE NAME CLASS FIUNG DATE SUB-NUMBER CLASS AA20 5,136,267 08/1992 Cabot 174 333 AB20 5,140,705 08/1992 455 Kosuga 318 09/1992 AC20 5,150,124 Moore et al. 342 68 AD20 5,151,661 09/1992 Caldwell et al. 328 14 AE20 5,159,710 10/1992 455 Cusdin 304 5 2004 MAR d AF20 5,170,414 12/1992 Silvian 375 59 5,172,070 AG20 12/1992 Hiraiwa et al. 329 304 Center 2600 AH20 03/1993 5,191,459 359 echnology Thompson et al. 133 Al20 5,204,642 04/1993 Ashgar et al. 331 135 **FOREIGN PATENT DOCUMENTS** EXAMINER DOCUMENT NUMBER COUNTRY INITIAL DATE **CLASS** SUB-TRANSLATION CLASS AJ20 Yes No AK20 Yes No AL20 Yes No AM20 Yes No OTHER (Including Author, Title, Date, Pertinent Pages, etc.) Ndzi, D. et al., "Wideband Statistics of Signat Levels and Doppler Spread on an Over-The-Sea Transhorizon AN Link," IEE Colloquium on Propagation Characteristics and Related System Techniques for Beyond Line-of-Sight Radio, IEE, pp. 9/1-9/6 (November 24, 1997). 20 CC "New zero IF chipset from Philips," Electronic Engineering, United News & Media, Vol. 67, No. 825, p. 10 ΑO <u>20</u> (September 1995). Ohara, H. et al., "First monolithic PCM filter cuts cost of telecomm systems," Electronic Design, Hayden ΑP <u>20</u> Publishing Company, Vol. 27, No. 8, pp. 130-135 (April 12, 1979). AQ <u> 20</u> Oppenheim, A.V. et al., Signals and Systems, Prentice-Hall, pp. 527-531 and 561-562 (1983). Ortgies, G., "Experimental Parameters Affecting Amplitude Scintillation Measurements on Satellite Links," *Electronics Letters*, IEE, Vol. 21, No. 17, pp. 771-772 (August 15, 1985). AR <u>20</u> **EXAMINER** C. CHOW DATE CONSIDERED 7/20/04 **EXAMINER:** Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.



Page 21 of 53

··)

	•						TTY. DOCKET NO. 744.0260001		APPLI 09/47	CATION NO 6,093		}
	F	ORM I	PTO-1449				PPLICANT prrells et al.					}
INF	ORMATIO	V DIS	CLOSURE STA	TEME	<u>NT</u>	_	LLING DATE		GROUP			1
<u></u>						Jā	nuary 3, 2000		2631			ļ
	1		·		U.S. P.	ATEN	T DOCUMENTS	т-		T	·	
EXAMINER INITIAL			CUMENT MBER	DATI		NAA	AE	CL	ASS	SUB- CLASS	FILING DATE	
C.C.	AA21	5,21	2,827	05/1	993	Mes	zko et al.	45	5	219		
	AB21	+	4,787	05/1			cota, Jr.	45		3.2	L	.
	AC21		20,583	06/1		_	mon	37:		82	RECE	VED
}	AD21	1	0,680	06/1		Lee		45		102		W Comer trade
	AE21	_	22,144	06/1			kehart rie et al.	38°		15 226.1	MAR 0 5	2004
 	AF21 AG21		19,686	07/1 08/1		Dow		45		78	וווחוז ט ט	2004
 -	AH21	+	11,561	08/1		Barn		375			hnology ()	ntor 2600
→	Al21	_	19,203	09/1		Lope		37		97	hnology C	Filler 2000
	1	1 - / -					ENT DOCUMENTS					
EXAMINER INITIAL		DO	CUMENT NUM	BER	DATE		COUNTRY	cı	ASS	SUB- CLASS	TRANSLATION	
	AJ21						·				Yes No	
	AK21										Yes No	
	AL21										Yes No	
	AM21							T	-		Yes No	
	<u></u>		OTHER	(Incl	uding Auth	or, Ti	itle, Date, Pertinent Pages, (etc.)		L		
						-		•				
c.c.	AN .	<u>21</u>					onic Sampler for Signal Downco EEE, Vol. 45, No. 12, 7 pages (ons on	
7											<u>'</u>	
	AO	21	Peeters, G. et Satellite Mea No. 2, pp. 73	surem	ents," <i>Inter</i> n	ation	istical Models for Clear-Air Scir al Journal of Satellite Communi).	ntillat Icatio	tion Prec ns, John	diction Using Wiley and S	Olympus ions, Vol. 15,	
	АР	<u>21</u>	Perrey, A.G. o				, NBS Technical Note 1121: A S 1980).	Schot	tky Diod	le Bridge San	npling Gate, U.S.	
	AQ	<u>21</u>	Poulton, K. e pp. 962-969				C System,* IEEE Journal of Solid	i-Stat	e Circuit	ts, IEEE, Vol.	SC-22, No. 6,	
	AR	<u>21</u>	Press Release (April 6, 199		kervision, In	c. Anı	nounces Fiscal 1993 Results," L	ipper	t/Heilsh	om and Asso	ociates, 2 Pages	
EXAMINER C.		_							CONSI	1/2	0/04	
	nd not co	nsider					s in conformance with MPEP 60 t communication to Applicant.	19. D	Praw line	through cite	ation it not in	

MAR 0 4 2004

RADEWARK

Page 22 of 53

APPLICANT SOFTel Set et al. FILTISO DATE SOFTel Set et al. FILTISO DATE SOTTEl Set et al. FILTISO DATE SAMUREY 3, 2000 GROUP 2631								TTY. DOCKET NO. 744.0260001			CATION N	0.			
PILLING DATE JANUARY J. 2000 J. 2031 J. 2001 J. 2031			PO	RM PTO-1449					***	-			1		
SAMINER DOCUMENT DATE DATE DATE CLASS SUB- FLING DATE		INFORMATI	ON	DISCLOSURE	STATEME	<u>NT</u>				Lanava			4		
DOCUMENT DATE NAME CLASS SUB-CLASS FILING DATE											,		j		
INITIAL DOCUMENT NUMBER DATE NAME CLASS SUB- FILING DATE CLASS CLASS SUB- FILING DATE COUNTRY CLASS SUB- FILING DATE CLASS SUB- FILING DATE COUNTRY CLASS SUB- FILING DATE CLASS SUB- FILING DATE COUNTRY CLASS SUB- FILING DATE CLASS						U.S. P	ATEN	T DOCUMENTS			1				
A222 5,251,232 10/1993 Monomi 375 10 RECE					DAT	E	NAA	AE	CL	ASS		FILING DATE			
AC22 5,260,970 11/1993 Henry et al. 375 10 RECE 11/1993 A022 5,263,194 11/1993 Jappar 455 334 MAR 0 472 5,263,196 11/1993 Jappar 455 334 MAR 0 472 5,267,023 11/1993 Aspar 455 334 MAR 0 472 5,267,023 11/1994 Aurophy et al. 370 76 472 5,267,023 11/1994 Scarpa 358 23 MAR 0 472 5,282,023 01/1994 Scarpa 358 36 Recomposition 4,022 5,282,023 01/1994 Scarpa 358 36 Recomposition 4,022 5,287,516 02/1994 Schaub 375 88 48 48 48 48 48 48 4	2.0	· AA2	2	5,251,218	10/1	993	Ston	e et al.	37	0	120]		
A022 5,263,194 11/1993 Japper 455 316 A222 5,263,196 11/1993 Japper 455 324 MAR 0 A223 5,263,203 11/1993 Sempen 455 334 MAR 0 A222 5,263,023 11/1994 Sempen 358 36 ECINOLOGY Center 260 A122 5,287,516 02/1994 Sempen 358 36 ECINOLOGY Center 260 A122 5,287,516 02/1994 Sempen 358 36 ECINOLOGY Center 260 A122 5,287,516 02/1994 Sempen 375 88 EXAMINER DOCUMENT NUMBER DATE COUNTRY CLASS SUB-CLASS SUB		AB2	2	5,251,232	10/1	993	Non	ami	37	5	5		l., ,		
A022 5,263,194 11/1993 Japper 455 316 A222 5,263,196 11/1993 Japper 455 324 MAR 0 A223 5,263,203 11/1993 Sempen 455 334 MAR 0 A222 5,263,023 11/1994 Sempen 358 36 ECINOLOGY Center 260 A122 5,287,516 02/1994 Sempen 358 36 ECINOLOGY Center 260 A122 5,287,516 02/1994 Sempen 358 36 ECINOLOGY Center 260 A122 5,287,516 02/1994 Sempen 375 88 EXAMINER DOCUMENT NUMBER DATE COUNTRY CLASS SUB-CLASS SUB		AC2	2	5,260,970	11/1	993	Hen	ry et al.	37	5	10	RECE			
AF22 5,287,023 11/1993 Kawasaki 358 23 WARK U-2		AD2	2	5,263,194	11/1	993	Rago	ın	45	5	316		10 1 1 1 10		
A722 5,278,826 01/1994 Murphy of cl. 370 76 A722 5,278,826 01/1994 Scorpa 358 36 Technology Center 260 A722 5,282,023 01/1994 Scorpa 358 36 Technology Center 260 FOREIGN PATENT DOCUMENTS FOREIGN PATENT DOCUMENTS EXAMINER INITIAL DOCUMENT NUMBER DATE COUNTRY CLASS SUB-CLASS VS No		AE2	<u> </u>	5,263,196	11/1	993	Jasp	er	45	5	324		2001		
AA22 5,282,023 01/1994 Scarpe 358 36 TeCHDIOQY Center 260 V A22 5,287,516 02/1994 Schaub 375 88 FOREIGN PATENT DOCUMENTS EXAMINER INITIAL DOCUMENT NUMBER DATE COUNTRY CLASS SUB-CLASS No		AF2	<u> </u>	5,267,023	11/1	993	Kaw	asaki	35	8	23	WARU	2004		
FOREIGN PATENT DOCUMENTS EXAMINER INITIAL AJ22 AJ23 AJ24 AJ24 AJ24 AJ24 AJ24 AJ25 AJ24 AJ25 AJ25 AJ26 AJ26 AJ26 AJ26 AJ26 AJ26 AJ27 AJ27 AJ28	AG2	2	5,278,826	01/1	994	Μυη	phy et al.	37	0	76	<u> </u>	h 0000			
FOREIGN PATENT DOCUMENTS EXAMINER INITIAL DOCUMENT NUMBER DATE COUNTRY CLASS SUB CLASS Yes No Yes No AK22		AH2	2	5,282,023	01/1	994	Scar	pa	35	8	36	echnology (µenter 2600		
EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. DATE CLASS SUB-TRANSLATION CLASS SUB-TRANSLATION CLASS Yes No Yes No Yes No AX22	¥	AJ22		5,287,516	02/1	994	Scho	ıvb	37	5	88				
INITIAL DOCUMENT NUMBER DATE COUNTRY CLASS SUB-CLASS TRANSLATION CLASS Ves No	57440150		-т			FOREIGN	PAT	ENT DOCUMENTS			1	· r · · · · · · · · · · · · · · · · · ·			
AN22 AN22 AN22 AN32 AN32 AN32 AN32 AN32 AN42 AN42 AN42 AN42 AN54 AN55 AN6 AN6 AN76 AN			╛	DOCUMENT N	UMBER	DATE		COUNTRY	CL	ASS .		TRANSLATION			
AN 22 Press Release, "Parkervision, Inc. Announces First Quarter Financial Results," Lippert/Heilshorn and Associates, 2 Pages (April 26, 1994). AP 22 Press Release, "Parkervision, Inc. Announces First Quarter Financial Results," Lippert/Heilshorn and Associates, 2 Pages (April 26, 1994). AP 22 Press Release, "Parkervision, Inc. Announces First Quarter Financial Results," Lippert/Heilshorn and Associates, 2 Pages (April 26, 1994). AP 22 Press Release, "Parkervision, Inc. Announces First Quarter Financial Results," Lippert/Heilshorn and Associates, 2 Pages (April 26, 1994). AR 22 Press Release, "Parkervision, Inc. Announces The Retirement of William H. Fletcher, Chief Financial Officer," Lippert/Heilshorn and Associates, 1 Page (May 11, 1994). BEXAMINER C. CHOW EXAMINER Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.		AJ22	2												
OTHER (Including Author, Title, Date, Pertinent Pages, etc.) AN 22 Press Release, "Parkervision, Inc. Announces the Appointment of Michael Baker to the New Position of National Sales Manager," Lippert/Heilshorm and Associates, 1 Page (April 7, 1994). AO 22 Press Release, "Parkervision's Cameraman Well-Received By Distance Learning Market," Lippert/Heilshorm and Associates, 2 Pages (April 8, 1994). AP 22 Press Release, "Parkervision, Inc. Announces First Quarter Financial Results," Lippert/Heilshorm and Associates, 2 Pages (April 26, 1994). AQ 22 Press Release, "Parkervision, Inc. Announces The Retirement of William H. Fletcher, Chief Financial Officer," Lippert/Heilshorm and Associates, 1 Page (May 11, 1994). AR 22 Press Release, "Parkervision, Inc. Announces New Cameraman System II" At Infocomm Trade Show," Lippert/Heilshorm and Associates, 3 Pages (June 9, 1994). EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.		AK2	2												
OTHER (Including Author, Title, Date, Pertinent Pages, etc.) AN 22 Press Release, "Parkervision, Inc. Announces the Appointment of Michael Baker to the New Position of National Sales Manager," Lippert/Heilshorn and Associates, 1 Page (April 7, 1994). AO 22 Press Release, "Parkervision's Cameraman Well-Received By Distance Learning Market," Lippert/Heilshorn and Associates, 2 Pages (April 8, 1994). AP 22 Press Release, "Parkervision, Inc. Announces First Quarter Financial Results," Lippert/Heilshorn and Associates, 2 Pages (April 26, 1994). AQ 22 Press Release, "Parkervision, Inc. Announces The Retirement of William H. Fletcher, Chief Financial Officer," Lippert/Heilshorn and Associates, 1 Page (May 11, 1994). AR 22 Press Release, "Parkervision, Inc. Announces New Cameraman System II" At Infocomm Trade Show," Lippert/Heilshorn and Associates, 3 Pages (June 9, 1994). EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEF 609. Draw line through citation if not in conformance and not considered. Include capy of this form with next communication to Applicant.		AL2	2												
OTHER (Including Author, Title, Date, Pertinent Pages, etc.) AN 22 Press Release, "Parkervision, Inc. Announces the Appointment of Michael Baker to the New Position of National Sales Manager," Lippert/Heilshorn and Associates, 1 Page (April 7, 1994). AO 22 Press Release, "Parkervision's Cameraman Well-Received By Distance Learning Market," Lippert/Heilshorn and Associates, 2 Pages (April 8, 1994). AP 22 Press Release, "Parkervision, Inc. Announces First Quarter Financial Results," Lippert/Heilshorn and Associates, 2 Pages (April 26, 1994). AQ 22 Press Release, "Parkervision, Inc. Announces The Retirement of William H. Fletcher, Chief Financial Officer," Lippert/Heilshorn and Associates, 1 Page (May 11, 1994). AR 22 Press Release, "Parkervision, Inc. Announces New Cameraman System II™ At Infocomm Trade Show," Lippert/Heilshorn and Associates, 3 Pages (June 9, 1994). EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.		AM2	2		*										
Press Release, "Parkervision's Cameraman Well-Received By Distance Learning Market," Lippert/Heilshorn and Associates, 2 Pages (April 8, 1994). AP 22 Press Release, "Parkervision, Inc. Announces First Quarter Financial Results," Lippert/Heilshorn and Associates, 2 Pages (April 26, 1994). AQ 22 Press Release, "Parkervision, Inc. Announces First Quarter Financial Results," Lippert/Heilshorn and Associates, 2 Pages (April 26, 1994). AR 22 Press Release, "Parkervision, Inc. Announces The Retirement of William H. Fletcher, Chief Financial Officer," Lippert/Heilshorn and Associates, 1 Page (May 11, 1994). EXAMINER C. CHOW DATE CONSIDERED 1/20/64 EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. How with next communication to Applicant.				OT	IER (Inc	uding Auth	or, Ti	tle, Date, Pertinent Pages	, etc.)		1				
Press Release, "Parkervision's Cameraman Well-Received By Distance Learning Market," Lippert/Heilshorn and Associates, 2 Pages (April 8, 1994). AP 22 Press Release, "Parkervision, Inc. Announces First Quarter Financial Results," Lippert/Heilshorn and Associates, 2 Pages (April 26, 1994). AQ 22 Press Release, "Parkervision, Inc. Announces First Quarter Financial Results," Lippert/Heilshorn and Associates, 2 Pages (April 26, 1994). AR 22 Press Release, "Parkervision, Inc. Announces The Retirement of William H. Fletcher, Chief Financial Officer," Lippert/Heilshorn and Associates, 1 Page (May 11, 1994). EXAMINER C. CHOW DATE CONSIDERED 1/20/64 EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. How with next communication to Applicant.				Press Rele	ase, "Par	kervision, In	c, Anr	nounces the Appointment of	Michae	el Baker	to the New	Position of			
AP 22 Press Release, "Parkervision, Inc. Announces First Quarter Financial Results," Lippert/Heilshorn and Associates, 2 Pages (April 26, 1994). AQ 22 Press Release, "Parkervision, Inc. Announces The Retirement of William H. Fletcher, Chief Financial Officer," Lippert/Heilshorn and Associates, 1 Page (May 11, 1994). AR 22 Press Release, "Parkervision, Inc. Announces New Cameraman System II™ At Infocomm Trade Show," Lippert/Heilshorn and Associates, 3 Pages (June 9, 1994). EXAMINER C. CHOW DATE CONSIDERED 120/04 EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.	c.c		4												
AP 22 Press Release, "Parkervision, Inc. Announces First Quarter Financial Results," Lippert/Heilshorn and Associates, 2 Pages (April 26, 1994). AQ 22 Press Release, "Parkervision, Inc. Announces The Retirement of William H. Fletcher, Chief Financial Officer," Lippert/Heilshorn and Associates, 1 Page (May 11, 1994). AR 22 Press Release, "Parkervision, Inc. Announces New Cameraman System II™ At Infocomm Trade Show," Lippert/Heilshorn and Associates, 3 Pages (June 9, 1994). EXAMINER C. CHOW DATE CONSIDERED 120/04 EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.								W # P : 10 D:							
AR 22 Press Release, "Parkervision, Inc. Announces The Retirement of William H. Fletcher, Chief Financial Officer," Lippert/Heilshorn and Associates, 1 Page (May 11, 1994). AR 22 Press Release, "Parkervision, Inc. Announces New Cameraman System II" At Infocomm Trade Show," Lippert/Heilshorn and Associates, 3 Pages (June 9, 1994). EXAMINER C. CHOW DATE CONSIDERED 7/20/04 EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.		AO	, 2						auce re	arning	магкет,- ыр	pen/newsnom			
AR 22 Press Release, "Parkervision, Inc. Announces The Retirement of William H. Fletcher, Chief Financial Officer," Lippert/Heilshorn and Associates, 1 Page (May 11, 1994). AR 22 Press Release, "Parkervision, Inc. Announces New Cameraman System II" At Infocomm Trade Show," Lippert/Heilshorn and Associates, 3 Pages (June 9, 1994). EXAMINER C.CHOW DATE CONSIDERED 7/20/04 EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.			$^{+}$							····					
Lippert/Heilshorn and Associates, 1 Page (May 11, 1994). AR 22 Press Release, "Parkervision, Inc. Announces New Cameraman System II" At Infocomm Trade Show," Lippert/Heilshorn and Associates, 3 Pages (June 9, 1994). EXAMINER C. CHOW DATE CONSIDERED 720/04 EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.		AP	2												
Lippert/Heilshorn and Associates, 1 Page (May 11, 1994). AR 22 Press Release, "Parkervision, Inc. Announces New Cameraman System II" At Infocomm Trade Show," Lippert/Heilshorn and Associates, 3 Pages (June 9, 1994). EXAMINER C. CHOW DATE CONSIDERED 720/04 EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.			+		<u>,</u>										
Press Release, "Parkervision, Inc. Announces New Cameraman System II" At Infocomm Trade Show," EXAMINER C.CHOW DATE CONSIDERED 720/04 EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.		AQ													
EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.		.	2						ystem l	i™ At In	focomm Tro	de Show,"			
conformance and not considered. Include copy of this form with next communication to Applicant.	EXAMINER	C.CH	ou	ر					DATE	CONS	IDERED 7	20/04			
	conforman	ice and not	cons)raw lin	e through c	itation if not in			

* MANFMARY

EXAMINER INITIAL

EXAMINER INITIAL

C.C.

<u>. O. J</u>

FORM PTO-1449

INFORMATION DISCLOSURE STATEMENT

DOCUMENT

NUMBER

5,293,398

5,303,417

5,307,517

5,315,583

5,321,852

5,325,204

5,337,014

5,339,054

5,339,459

DOCUMENT NUMBER

AA23

AB23

AC23

AD23

AE23

AF23

AG23

AH23

Al23

AJ23

AK23

AL23

AM23

AN

AO

ΑP

AQ

23

<u>23</u>

23

<u>23</u>

DATE

03/1994

04/1994

04/1994

05/1994

06/1994

06/1994

08/1994

08/1994

08/1994

DATE

Page 23 of 53 ATTY. DOCKET NO. APPLICATION NO. 1744.0260001 09/476,093 APPLICANT Sorrells et al. FILING DATE GROUP January 3, 2000 2631 U.S. PATENT DOCUMENTS NAME CLASS SUB-FILING DATE CLASS Hamao et al. 375 Laws 455 314 Rich 455 306 Murphy et al. 370 18 455 Seong 182.1 348 607 Scarpa MAR 0 5 2004 Najle et al. 324 613 Taguchi 332 100 echnology Center 2000 Schiltz et al. 455 333 FOREIGN PATENT DOCUMENTS COUNTRY CLASS SUB-TRANSLATION CLASS Yes No Yes No Yes No Yes No OTHER (Including Author, Title, Date, Pertinent Pages, etc.) Press Release, "Parkervision, Inc. Announces Appointments to its National Sales Force," Lippert/Heilshorn and Associates, 2 Pages (June 17, 1994). Press Release, "Parkervision, Inc. Announces Second Quarter and Six Months Financial Results," Lippert/Heilshorn and Associates, 3 Pages (August 9, 1994). Press Release, "Parkervision, Inc. Announces Third Quarter and Nine Months Financial Results," Lippert/Heilshorn and Associates, 3 Pages (October 28, 1994).

Press Release, "Parkervision, Inc. Announces Fourth Quarter and Year End Results," Lippert/Heilshorn and AR <u>23</u> Associates, 2 Pages (March 1, 1995). **EXAMINER DATE CONSIDERED** C. CHOW

Lippert/Heilshorn and Associates, 2 Pages (November 7, 1994).

Press Release, "Parkervision, Inc. Announces First Significant Dealer Sale of Its Cameraman® System II,"

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

MAR 0 4 2004 W

Page 24 of 53

											Page 24 of 53	_
							TTY. DOCKET NO.			ICATION N	0.]
		FORM	PTO-1449				744.0260001 PPLICANT		109/4	76,093		1
INFO	ORMATIC	N DIS	CLOSURE STA	TEME	NT		orrells et al.					
							LING DATE		GROU			1
	··				116		anuary 3, 2000		2631			4
EXAMINER	T	Т		Г	0.5.	TAILI	II DOCOMENTS	Т		T		1
NITIAL	<u> </u>	NU	CUMENT MBER	DAT		NAA	AE	C	LASS	SUB- CLASS	FILING DATE	
C.C.	AA24		55,114	10/1			erlin et al.	3	40	310 A		1
	AB24		51,408	11/1			anabe et al.		55	324	DECE	11 \ / [
	AC24	\neg	59,800	11/1			ngi et al.		55	59	HEUL	∤1 ∨ `
	AD24		75,146	12/1			Imers		75	103		2004
	AE24		79,040	01/1		_	omoto et al.		41	143	MAR 0	5 2004
—- —	AF24		79,141	01/1			mpson et al.		59	125		1.
	AG24		38,063	02/1		_	ntori et al.		64	724.17	Technology	Center
	AH24		70,364	02/1			ster et al.		55	52.3	lecilione 87	1
	AI24	5,40	00,084	03/1		Scar	<u> </u>	3.	48	624	J <u>.</u>	1
	1				FOREIG	N PAT	ENT DOCUMENTS				 	
EXAMINER NITIAL		DO	CUMENT NUM	BER	DATE		COUNTRY	С	LASS	SUB- CLASS	TRANSLATION	
	AJ24		· · · · · · · · · · · · · · · · · · ·								Yes No	
	AK24					4					Yes No	
Al24 Yes No												
	AM24										Yes No	
	•		OTHER	(Incl	uding Aut	hor, Ti	tle, Date, Pertinent P	ages, etc.)		•	
						_						
	AN	24	Press Release Associates, 2	, "Par Page:	kervision, Ir s (March 21	nc. Ann I, 1995	nounces Joint Product E i).	Developmer	nts With	VTEL," Lippe	rt/Heilshorn and	
C.C.		ĺ										
1	١. ـ	١	Press Release	. "Parl	kervision. Ir	nc. Ann	nounces First Quarter F	inancial Re	sults " Lia	nert/Heilsh	om and	
	AO	<u>24</u>	Associates, 3	Page	(April 28,	1995).	- Control of the cont	·	30113, EI	open, nensn	oni ana	I
							,					
Ì		١	Press Release	. "Parl	cervision W	ins Tor	o 100 Product Districts'	Choice Aw	ard." Par	kervision M	arketing and	
	AP	24	Manufacturin	g Hed	idquarters,	1 Page	(June 29, 1995).	0	u.u, .u.		ancaning and	
	1				•					:		
						•			•			
l l			Press Release	. "Parl	ervision N	ational	Sales Manager Next P	resident of	USDIA 1	Parkervisio	n Madretina and	
	AQ	24					(July 6, 1995).	. 30140111 (1)	JUD 64,	- 41 NGI TISIO		
ı	'	1]								İ	
1	1				· • -							
			1	*Pad	cervision G	rantad	New Patent," Parkervis	ion Market	ina cod	Manufacturi	na Headawatas	
		_	Press Palaces		ver training	·uiiied	THOR EUROIN, FURNITUS	MUI MUIKEI	ing and	איייוייייי	ny menuquaners,	
	AR	<u>24</u>	Press Release 1 Page (July 2								Į	
	AR	<u>24</u>										
EXAMINER	AR CHO							Inat	F CONS	DERED 7/		



Page 25 of 53

5 2004

Center 2600

							TY. DOCKET NO. 44.0260001			CATION NO),
TNP			O-1449 Losure sta	יסאטיה	APTP	AF	PLICANT rrells et al.	·			
INE	ORMATION	DISC	JOSUKE STA	ariati	NI		LING DATE nuary 3, 2000		GROUP 2631)	
					U.S. P.	ATEN	T DOCUMENTS.				
EXAMINER INITIAL		DOCU	IMENT BER	DATE		NAM	NE	CL	ASS	SUB- CLASS	FILING DATE
. ۍ ک	AA25	5,404	,127	04/1	995	Lee	et al.	34	0	310.02	DEC
	AB25	5,410	,541	04/1	995	Hott	0	37	0	76	NEC
	AC25	5,410	,743	04/1	995	Seel	et al.	45:	5	326	
	AD25	5,412,	,352	05/1	995	Graf	am	33:	2	103	MAR (
	AE25	5,416,	,803	05/1	995	Jane	г	37	5	324	
	AF25	5,422	,913	06/1	995	Wilk	inson	37	5	347	Tochnology
	AG25	5,423	,082	06/1	995	Cygo	ın et al.	45	5	126	<u>li ecumono di</u>
	AH25	5,428,	,638	06/1	995	Ciof	i et al.	37	5	224	
	Al25	5,428	,640	06/1	995	Town	nley	37	5	257	
					FOREIGN	PAT	ENT DOCUMENTS				
EXAMINER INITIAL		DOCU	IMENT NUM	BER	DATE	·	COUNTRY	CL	ASS	SUB- CLASS	TRANSLATION
٨	AJ25										Yes No
	AK25										Yes No
	AL25										Yes No
	AM25										· Yes
			OTHER	(Incl	uding Auth	or, Ti	tle, Date, Pertinent Page	es, etc.)			
Cic.	AN						ounces Second Quarter a juanters, 2 Pages (July 31,		onths Fir	nancial Resu	lts," Parkervision
	AO						ands Its Cameraman Syste Pages (September 22, 199		uct Line	," Parkervisi	on Marketing
	АР						es New Camera Control T is (October 25, 1995).	echnolog	y," Park	ervision Ma	rketing and
	AQ						ounces Completion of VTE turing Headquarters, 2 Pag				Line,"
	AR						ounces Third Quarter and Juarters, 2 Pages (October			nancial Resu	lts," Parkervision
EXAMINER C	CHOU	v						DATE	CONSI	DERED 7/	20/04
EXAMINER: in conformance a	<u>nd not cor</u>	<u>nsidered</u>	onsidered, w . Include co	hethe	r or not cita his form wit	tion is h next	in conformance with MPE communication to Applica	P 609. D	raw line	through cit	ation if not in



Page 26 of 53

ATTY. DOCKET NO. APPLICATION NO. 09/476,093						-				Page 26 of 53	٦			
APPLICANT Sorrella et al.										. O.				
PILING DATE PATENT DOCUMENTS PATENT DOCUMENTS PATENT DOCUMENTS PATENT DOCUMENTS PATENT DOCUMENTS PATENT DOCUMENT PATENT DOCUMENTS PATENT DOCUMENTS PATENT DOCUMENT PATENT						API	PLICANT		02/4/0,033		1			
January 3, 2000 2631	INFOR	RMATION	DISCLOSURE ST	ATEMEN	<u>1T</u>	-			GROUP	* *	1			
DOCUMENT DATE NAME CLASS SUB- CLASS FILING DATE										. 				
NITIAL DOCUMENT DATE NAME CLASS SUB_ CLASS FILING DATE CLASS					U.S. P	ATENT	DOCUMENTS]			
A26 5,434,546 07/1995 Palmer 332 151 A826 5,438,692 08/1995 Mohindra 455 324 RECE A26 5,444,415 08/1995 Unit at al. 329 341 A26 5,444,865 08/1995 Hack et al. 329 341 A26 5,444,865 08/1995 Kochkaylo 332 100 A26 5,446,421 08/1995 Mattila et al. 332 103 Technology A26 5,446,422 08/1995 Mattila et al. 332 103 Technology A26 5,446,602 09/1995 Ohmori et al. 375 347 A126 5,451,899 09/1995 Lawton 329 302 FOREIGN PATENT DOCUMENTS EXAMINER NITIAL DOCUMENT NUMBER DATE COUNTRY CLASS SUB-CLASS Ves No No No No No No No No No No No No No				DATE	ŧ	NAM	E	CLA		FILING DATE				
A826 5,438,692 08/1995 Mohindra 455 324 RECE	1,10.	AA26		07/1	995	Palm	er	332	151		1			
AC26 5,444,415 08/1995 Italiawa et al. 329 341	i	A826	5,438,692	08/1	995	Mohi	ndra	455	324	DECE	コンドリ			
AE26 5,444,865 08/1995 Heck et al. 455 86 MAR 0 5 AF26 5,446,421 08/1995 Kechkaylo 332 100 AG26 5,446,422 08/1995 Mattile et al. 332 103 Technology 0 0 0 0 0 0 0 0 0		AC26	5,444,415	08/1	995	Dent	et al.	329	302	ITLUL	}! Y i /			
AF26 5,446,421 08/1995 Kechkaylo 332 100		AD26	5,444,416	08/1	995	tshika	ıwa et al.	329	341		F 2004			
AG26 5,446,422 08/1995 Mattila et al. 332 103 Technology Cell AH26 5,448,602 09/1995 Ohmori et al. 375 347 AH26 5,448,602 09/1995 Lawton 329 302 FOREIGN PATENT DOCUMENTS CXAMINER NITIAL DOCUMENT NUMBER DATE COUNTRY CLASS SUBCLASS Yes No AK26 Yes Release, "Parkervision's Cameraman Personal Locator Camera System Wins Telecon XY Award," Parkervision Marketing and Manufacturing Headquarters, 2 Pages (November 1, 1995).		AE26	5,444,865	08/1	995	Heck	et al.	455	86	MAK U	p 2004			
A126 5,451,899 09/1995 Lawton 329 302 FOREIGN PATENT DOCUMENTS EXAMINER NITIAL DOCUMENT NUMBER A126 COUNTRY CLASS SUB- TRANSLATION CLASS Yes No AK26 Yes No AK26 Yes No AK26 Yes No AM26 Yes No AM26 Yes No OTHER (Including Author, Title, Date, Pertinent Pages, etc.) Press Release, "Parkervision's Cameraman Personal Locator Camera System Wins Telecon XV Award," Parkervision Marketing and Manufacturing Headquarters, 2 Pages (November 1, 1995). Press Release, "Parkervision, Inc. Announces Purchase Commitment From VTEL Corporation," Parkervision Marketing and Manufacturing Headquarters, 1 Page (February 26, 1996).		AF26	5,446,421	08/1	995	Kech	kaylo	332	100		h			
A126 5,488,602 09/1995 Uawton 329 302 FOREIGN PATENT DOCUMENTS XAMINER NITIAL DOCUMENT NUMBER DATE COUNTRY CLASS SUB-CLASS Yes No AK26 Sub-No AK26 Sub-No AK26 Sub-No AK26 Sub-No No No AK26 Sub-No No No AK26 Sub-No No		AG26	5,446,422	_						Technology	Center 260			
FOREIGN PATENT DOCUMENTS EXAMINER NITIAL DOCUMENT NUMBER DATE COUNTRY CLASS SUB-CLASS TRANSLATION CLASS Yes No AK26 A				_						-	-			
DOCUMENT NUMBER DATE COUNTRY CLASS SUB-CLASS TRANSLATION CLASS Yes No AK26 Yes		Al26	5,451,899	09/1				329	302		1			
AJ26 AJ26 AJ26 AJ26 AK26					FOREIGI	V PATE	NT DOCUMENTS				4			
AK26 AL26 AM26 OTHER (Including Author, Title, Date, Pertinent Pages, etc.) Press Release, "Parkervision's Cameraman Personal Locator Camera System Wins Telecon XV Award," Parkervision Marketing and Manufacturing Headquarters, 2 Pages (November 1, 1995). AO 26 Press Release, "Parkervision, Inc. Announces Purchase Commitment From VTEL Corporation," Parkervision Marketing and Manufacturing Headquarters, 1 Page (February 26, 1996).			DOCUMENT NU	MBER	DATE		COUNTRY	CLAS		TRANSLATION				
AM26 OTHER (Including Author, Title, Date, Pertinent Pages, etc.) Press Release, "Parkervision's Cameraman Personal Locator Camera System Wins Telecon XV Award," Parkervision Marketing and Manufacturing Headquarters, 2 Pages (November 1, 1995). AO 26 Press Release, "Parkervision, Inc. Announces Purchase Commitment From YTEL Corporation," Parkervision Marketing and Manufacturing Headquarters, 1 Page (February 26, 1996).		AJ26												
OTHER (Including Author, Title, Date, Pertinent Pages, etc.) Press Release, "Parkervision's Cameraman Personal Locator Camera System Wins Telecon XV Award," Parkervision Marketing and Manufacturing Headquarters, 2 Pages (November 1, 1995). AD 26 Press Release, "Parkervision, Inc. Announces Purchase Commitment From VTEL Corporation," Parkervision Marketing and Manufacturing Headquarters, 1 Page (February 26, 1996).		AK26												
OTHER (Including Author, Title, Date, Pertinent Pages, etc.) AN 26 Press Release, "Parkervision's Cameraman Personal Locator Camera System Wins Telecon XV Award," Parkervision Marketing and Manufacturing Headquarters, 2 Pages (November 1, 1995). AO 26 Press Release, "Parkervision, Inc. Announces Purchase Commitment From VTEL Corporation," Parkervision Marketing and Manufacturing Headquarters, 1 Page (February 26, 1996).	No No													
Press Release, "Parkervision's Cameraman Personal Locator Camera System Wins Telecon XV Award," Parkervision Marketing and Manufacturing Headquarters, 2 Pages (November 1, 1995). Press Release, "Parkervision, Inc. Announces Purchase Commitment From VTEL Corporation," Parkervision Marketing and Manufacturing Headquarters, 1 Page (February 26, 1996). Press Release, "Parkervision, Inc. Announces Fourth Quarter and Year End Results," Parkervision Marketing		AM26												
Parkervision Marketing and Manufacturing Headquarters, 2 Pages (November 1, 1995). AO 26 Press Release, "Parkervision, Inc. Announces Purchase Commitment From VTEL Corporation," Parkervision Marketing and Manufacturing Headquarters, 1 Page (February 26, 1996). Press Release, "ParkerVision, Inc. Announces Fourth Quarter and Year End Results," Parkervision Marketing			ОТНІ	R (Incl	uding Autl	nor, Ti	le, Date, Pertinent Po	iges, etc.)						
Marketing and Manufacturing Headquarters, 1 Page (February 26, 1996). Press Release, "ParkerVision, Inc. Announces Fourth Quarter and Year End Results," Parkervision Marketing		AN								XV Award,"	·			
AP Press Release, "ParkerVision, Inc. Announces Fourth Quarter and Year End Results," Parkervision Marketing and Manufacturing Headquarters, 2 Pages (February 27, 1996).		AO	26 Press Relea Marketing (se, "Parl and Mar	kervision, Ir nufacturing	nc. Ann Heada	ounces Purchase Comm uarters, 1 Page (Februa	nitment From Iry 26, 1996	ı VTEL Corporati	on," Parkervision				
		AP Press Release, "ParkerVision, Inc. Announces Fourth Quarter and Year End Results," Parkervision Marketing and Manufacturing Headquarters, 2 Pages (February 27, 1996).												
AQ 26 Press Release, "ParkerVision, Inc. Expands its Product Line," Parkervision Marketing and Manufacturing Headquarters, 2 Pages (March 7, 1996).		AQ						arkervision A	Aarketing and M	anufacturing				
AR 26 Press Release, "ParkerVision Files Patents for its Research of Wireless Technology," Parkervision Marketing and Manufacturing Headquarters, 1 Page (March 28, 1996).		AR	26 Press Relea	se, "Parl acturing	kerVision Fi Headquar	les Pat ters, 1	ents for its Research of Page (March 28, 1996).	Wireless Tech	nnology," Parker	vision Marketing				
EXAMINER C.CHOW DATE CONSIDERED 7/20/04	EXAMINER C.	CHOO	· · · · · · · · · · · · · · · · · · ·					DATE	CONSIDERED	120/04]			
EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.	EXAMINER: Init	tial if ref	erence considered	whethe	r or not cite	ation is	in conformance with M	PEP 609 Dr	aw line through	citation if not in	1			



Page 27 of 53 APPLICATION NO. ATTY. DOCKET NO. 09/476,093 1744.0260001 PORM PTO-1449 APPLICANT Sorrells et al. INFORMATION DISCLOSURE STATEMENT GROUP FILING DATE January 3, 2000 2631 **U.S. PATENT DOCUMENTS** EXAMINER INITIAL FILING DATE CLASS DOCUMENT DATE NAME SUB-CLASS NUMBER 375 322 09/1995 Dutta **AA27** 5,454,007 AB27 09/1995 Fruit et al. 372 202 5,454,009 332 117 5,463,356 10/1995 Palmer AC27 MAR 0 5 2004 10/1995 332 151 Hobden AD27 5,463,357 11/1995 Kobayashi et al. 329 315 AE27 5,465,071 echnology Center 2600 455 266 11/1995 Hiben et al. 5,465,410 AF27 455 326 11/1995 Bien AG27 5,465,415 327 92 AH27 5,471,162 11/1995 McEwan 91 12/1995 McEwan 327 A127 5,479,120 FOREIGN PATENT DOCUMENTS EXAMINER INITIAL COUNTRY CLASS SUB-TRANSLATION DOCUMENT NUMBER DATE CLASS AJ27 No Yes AK27 No Yes AL27 No Yes AM27 No OTHER (Including Author, Title, Date, Pertinent Pages, etc.) Press Release, "Parkervision, Inc. Announces First Significant Sale of Its Cameraman® Three-Chip System," ΑN <u>27</u> Parkervision Marketing and Manufacturing Headquarters, 2 pages (April 12, 1996). Cic. Press Release, "Parkervision, Inc. Introduces New Product Line For Studio Production Market," Parkervision Marketing and Manufacturing Headquarters, 2 Pages (April 15, 1996). ΑO <u>27</u> Press Release, "Parkervision, Inc. Announces Private Placement of 800,000 Shares," Parkervision Marketing ΑP <u>27</u> and Manufacturing Headquarters, 1 Page (April 15, 1996). Press Release, "Parkervision, Inc. Announces First Quarter Financial Results," Parkervision Marketing and ΑQ <u>27</u> Manufacturing Headquarters, 3 Pages (April 30, 1996).

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

Headquarters, 2 Pages (June 5, 1996).

Press Release, "ParkerVision's New Studio Product Wins Award," Parkervision Marketing and Manufacturing

DATE CONSIDERED

7/20/04

EXAMINER

AR

C.CHOW

<u>27</u>

Page 28 of 53

ATTY. DOCKET NO. APPLICATION NO. 1744.0260001 09/476,093 FORM PTO-1449													
	P	ORM I	PTO-1449			AF	PLICANT		4	· · · · · · · · · · · · · · · · · · ·			
INFO	PRMATION	N DIS	CLOSURE STA	TEME	TR	_	orrells et al.		Tanaun				
							LING DATE muary 3, 2000		GROUP 2631				
			.,		U.S. P	ATEN	T DOCUMENTS			,			
EXAMINER INITIAL			CUMENT ABER	DATI		NAM	AE	CL	ASS	SUB- CLASS	FILING DATE		
C.C.	AA28	5,47	9,447	12/1	995	Cho	w et al.	37	5	260			
	AB28	5,48	3,193	01/1	996	Kenr	nedy et al.	32	9	300	DEC		
	AC28	5,48	3,549	01/1	996	Weir	berg et al.	37	5	200	INEC	EIVED	
	AD28	5,48	3,691	01/1	996	Heck	c et al.	45	5	234.2			
	AE28	5,49	0,173	02/1	996	Whil	cehart et al.	37	5	316	MAR	5 2004	
L	AF28	5,49	3,581	02/1	996	Your	ng et al.	37	5	350			
	AG28	5,49	3,721	02/1	996	Reis		45	5	339	Technology	Center 2600	
	AH28	5,49	5,200	02/1	996	Kwai	n et al.	32	7	554	recimolog	Oct. 1000	
· •	AJ28	5,49	5,202	02/1	996	Hsu		32	7	113			
					FOREIGN	I PAT	ENT DOCUMENTS						
EXAMINER INITIAL		рос	CUMENT NUM	BER	DATE		COUNTRY	CL	ASS	SUB- CLASS	TRANSLATION		
	AJ28										Yes No		
	AK28										Yes No		
	AL28												
	AM28 Yes												
			OTHE	t (Incl	uding Auth	or, Ti	tie, Date, Pertinent Pages	, etc.)					
	OTHER (Including Author, Title, Date, Pertinent Pages, etc.) AN 28 Press Release, "Parkervision, Inc. Announces Second Quarter and Six Months Financial Results," Parkervision Marketing and Manufacturing Headquarters, 3 Pages (August 1, 1996).												
C.C.													
	AO 28 Press Release, "Parkervision, Inc. Announces Third Quarter and Nine Months Financial Results," Parkervision Marketing and Manufacturing Headquarters, 2 Pages (October 29, 1996).												
100	АР	Press Release, "PictureTel and ParkerVision Sign Reseller Agreement," Parkervision Marketing and Manufacturing Headquarters, 2 Pages (October 30, 1996).											
	AQ	Press Release, "CLI and ParkerVision Bring Enhanced Ease-of-Use to Videoconferencing," CLI/Parkervision, 2 Pages (January 20, 1997).											
	AR 28 Press Release, "Parkervision, Inc. Announces Fourth Quarter and Year End Results," Parkervision Marketing and Manufacturing Headquarters, 3 Pages (February 27, 1997).												
EXAMINER C. CHOW DATE CONSIDERED 7/20/04													
	nd not co	nsider					in conformance with MPEP of temperature to the communication to Applican		Oraw line	through ci	tation if not in		



Page 29 of 53

			ORM I	PTO-1449			17	TY. DOCKET NO. 44.0260001		APPLI 09/47	CATION NO 6,093		
	INF			CLOSURE STA	TEME	ıт		PLICANT rrells et al.					
						···		LING DATE nuary 3, 2000		GROUP 2631			
						U.S. P.	ATEN	T DOCUMENTS					
EXAMIN INITIAL				CUMENT MBER	DATE		NAN	NE ·	CL	ASS	SUB- CLASS	FIUNG DATE	
<u> </u>	<u>.ح.</u>	AA29	5,49	25,500	02/1	996	Jova	novich et al.	37	5	206]
		AB29	5,49	9,267	03/1		Ohe	et al.	37		206		
		AC29	_	00,758	03/1			npson et al.	35		189 E	EACH	MED
	├	AD29	+	7,688	05/1		_	n et al.	45		333		
	 	AE29	1	19,890	05/1		Pincl		45		307		2004
	├─	AF29	1	23,719	06/1			o et al.	32		557 103	MAR 0 5	2004
		AG29 AH29		23,726 23,760	06/1 06/1		McE	ger et al.	34				
	√	AI29	1	39,770	07/1		Ishig		37		206 Te	thnology Co	enter 2600
	<u> </u>	[AIZ7	3,50	17,170	0//1			ENT DOCUMENTS	07	<u>, </u>	200 10	, .	
EXAMIN			DOG	CUMENT NUM	BER	DATE		COUNTRY	CL	ASS.	SUB- CLASS	TRANSLATION	i
		AJ29										Yes No	
		AK29		····								Yes No	
		AL29	<u> </u>									Yes No	
		AM29										Yes	
		<u> </u>	<u> </u>	OTHER	Uncl	uding Auth	or Ti	l tle, Date, Pertinent Pag				No	
Cn	C .	AN .	29	Press Release	, "Parl	cervision, In	c. Ann	nounces First Quarter Fina es (April 29, 1997).			kervision M	arketing and	
	i	AO	<u>29</u>	Press Release 1997).	, "NE(C and Parke	rvisior	n Make Distance Learning	Closer," (NEC Amo	erica, 2 Page	es (June 18,	
		AP	<u> 29</u>					JPL with Robotic Cameras turing Headquarters, 2 pa				or Mars Mission,"	
		AQ	<u>29</u>					Join Forces to Create Wir quarters, 2 Pages (July 23,		mputer P	eripherals,"	Parkervision	
	L	AR	<u>29</u>					nounces Second Quarter a quarters, 3 Pages (July 31,		onths Fir	nancial Resu	lts," Parkervision	
EXAMIN	IER C	CHE	w	<u>. </u>		<u> </u>			DATE	CONSI	DERED 7/2	20/04	
	NER: I	nitial if ref	erence					in conformance with MPE	P 609. I				
		nd not co		ed. Include co	py of t	his form wit	h next	communication to Applic	ant.				



Page 30 of 53 ATTY. DOCKET NO. 1744.0260001 APPLICATION NO. 09/476,093 FORM PTO-1449 APPLICANT Sorrells et al. INFORMATION DISCLOSURE STATEMENT FILING DATE GROUP 2631 January 3, 2000 **U.S. PATENT DOCUMENTS** EXAMINER INITIAL DOCUMENT NUMBER DATE NAME CLASS SUB-FILING DATE CLASS **AA30** 09/1996 5,555,453 Kajimoto et al. 455 266 AB30 5,557,641 09/1996 Weinberg 375 295 RECEIVED AC30 5,557,642 09/1996 Williams 375 316 AD30 5,579,341 11/1996 Smith et al. 375 267 MAR 0 5 2004 AE30 5,579,347 11/1996 Lindquist et al. 375 346 AF30 5,584,068 12/1996 Mohindra 455 324 echnology Center 2600 AG30 01/1997 5,592,131 Labreche et al. 332 103 AH30 02/1997 5,602,847 Pagano et al. 370 484 A130 5,602,868 02/1997 Wilson 375 219 **FOREIGN PATENT DOCUMENTS** EXAMINER INITIAL DOCUMENT NUMBER DATE COUNTRY CLASS TRANSLATION SUB-CLASS AJ30 Yes No AK30 Yes No AL30 Yes No **AM30** Yes No OTHER (Including Author, Title, Date, Pertinent Pages, etc.) Press Release, "Parkervision, Inc. Announces Private Placement of 990,000 Shares," Parkervision Marketing AN 30 and Manufacturing Headquarters, 2 Pages (September 8, 1997). C.C. Press Release, "Wal-Mart Chooses Parkervision for Broadcast Production," Parkervision Marketing and Manufacturing Headquarters, 2 Pages (October 24, 1997). ΑO <u>30</u> Press Release, "Parkervision, Inc. Announces Third Quarter Financial Results," Parkervision Marketing and ΑP 30 Manufacturing Headquarters, 3 Pages (October 30, 1997). Press Release, "ParkerVision Announces Breakthrough in Wireless Radio Frequency Technology," Parkervision Marketing and Manufacturing Headquarters, 3 Pages (December 10, 1997). AQ . <u>30</u> Press Release, "Parkervision, Inc. Announces the Appointment of Joseph F. Skovron to the Position of Vice President, Licensing - Wireless Technologies," Parkervision Marketing and Manufacturing Headquarters, 2 Pages (January 9, 1998). AR <u>30</u> **EXAMINER** DATE CONSIDERED CICHOW

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.



Page 31 of 53 ATTY. DOCKET NO. APPLICATION NO. 1744.0260001 09/476,093 FORM PTO-1449 APPLICANT Sorrells et al. INFORMATION DISCLOSURE STATEMENT FILING DATE GROUP January 3, 2000 U.S. PATENT DOCUMENTS EXAMINER INITIAL DOCUMENT DATE NAME CLASS FILING DATE SUB-NUMBER CLASS CIC 02/1997 AA31 5,604,732 Kim et al. 370 342 AB31 03/1997 386 5,608,531 Honda et al. 03/1997 AC31 5,610,946 Tanaka et al. 375 269 RE 35,494 AD31 04/1997 Nicollini 327 554 AE31 5,617,451 04/1997 Mimura et al. 375 340 MAR (5 2004 AF31 5,619,538 04/1997 Sempel et al. 375 328 AG31 5,621,455 04/1997 Rogers et al. 348 6 echnology Center 2600 AH31 5,630,227 05/1997 Bella et al. 455 324 Al31 06/1997 5,640,415 375 Pandula 202 **FOREIGN PATENT DOCUMENTS** EXAMINER INITIAL **DOCUMENT NUMBER** COUNTRY DATE CLASS SUB-TRANSLATION CLASS AJ31 Yes No AK31 Yes No AL31 Yes No AM31 Yes No OTHER (Including Author, Title, Date, Pertinent Pages, etc.) Press Release, "Parkervision Announces Existing Agreement with IBM Terminates-- Company Continues with ΑN <u>31</u> Strategic Focus Announced in December, Parkervision Marketing and Manufacturing Headquarters, 2 Pages (January 27, 1998). Cic. Press Release, "Laboratory Tests Verify Parkervision Wireless Technology," Parkervision Marketing and ΑO <u>31</u> Manufacturing Headquarters, 2 Pages (March 3, 1998). Press Release, "Parkervision, Inc. Announces Fourth Quarter and Year End Financial Results," Parkervision Marketing and Manufacturing Headquarters, 3 Pages (March 5, 1998). ΑP <u>31</u> ٠.,. Press Release, "Parkervision Awarded Editors' Pick of Show for NAB 98," Parkervision Marketing and AQ <u>31</u> -Manufacturing Headquarters, 2 Pages (April 15, 1998). Press Release, "Parkervision Announces First Quarter Financial Results," Parkervision Marketing and AR <u>31</u> Manufacturing Headquarters, 3 Pages (May 4, 1998). DATE CONSIDERED 7/20/04 EXAMINER CICHOW **EXAMINER:** Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.



Page 32 of 53 ATTY. DOCKET NO. APPLICATION NO. 1744.0260001 09/476,093 FORM PTO-1449 APPLICANT Sorrells et al. INFORMATION DISCLOSURE STATEMENT FILING DATE GROUP January 3, 2000 **U.S. PATENT DOCUMENTS** EXAMINER INITIAL **DOCUMENT** DATE NAME CLASS SUB-FILING DATE NUMBER CLASS 5,640,424 AA32 06/1997 Banavong et al. 375 316 AB32 5,640,428 06/1997 Abe et al. 375 334 06/1997 AC32 5,640,698 Shen et al. 455 323 MAR 0 5 2004 AD32 5,648,985 07/1997 Bjerede et al. 375 219 AE32 5,650,785 07/1997 Rodal 342 357 echnology Center 2600 08/1997 AF32 5,661,424 Tang 327 105 AG32 5,663,878 09/1997 Walker 159 363 AH32 5,6<mark>63,</mark>986 09/1997 Striffler 375 260 09/1997 316 Al32 5,668<u>,</u>836 375 Smith et al. **FOREIGN PATENT DOCUMENTS EXAMINER** INITIAL DOCUMENT NUMBER DATE COUNTRY CLASS SUB-TRANSLATION CLASS AJ32 No AK32 Yes No AL32 Yes No AM32 Yes No OTHER (Including Author, Title, Date, Pertinent Pages, etc.) Press Release, "Parkervision 'DIRECT2DATA' Introduced in Response to Market Demand," Parkervision ΑN <u>32</u> Marketing and Manufacturing Headquarters, 3 Pages (July 9, 1998). C.C. Press Release, "Parkervision Expands Senior Management Team," Parkervision Marketing and Manufacturing ΑO <u>32</u> Headquarters, 2 Pages (July 29, 1998). Press Release, "Parkervision Announces Second Quarter and Six Month Financial Results," Parkervision ΑP <u>32</u> Marketing and Manufacturing Headquarters, 4 Pages (July 30, 1998). Press Release, "Parkervision Announces Third Quarter and Nine Month Financial Results," Parkervision Marketing and Manufacturing Headquarters, 3 Pages (October 30, 1998). AQ <u>32</u> Press Release, "Questar Infocomm, Inc. Invests \$5 Million in Parkervision Common Stock," Parkervision AR <u>32</u> Marketing and Manufacturing Headquarters, 3 Pages (December 2, 1998). DATE CONSIDERED 7/20/04 **EXAMINER** C.CHOW **EXAMINER:** Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in



Page 33 of 53

								TY. DOCKET NO. 744.0260001			CATION N	o.		
				PTO-1449				PPLICANT orrells et al.					1	
1	INFORMA	TION	DIS	CLOSURE STA	TEME	<u>NT</u>	_	LING DATE		GROUP	,		1	
				ii				nuary 3, 2000		2631			1	
					-	U.S. P.	ATEN	T DOCUMENTS			1		1	
EXAMINER INITIAL				CUMENT ABER	DATI		NAM	AE	CL	ASS	SUB- CLASS	FILING DATE		
CNC	. A	433	5,68	0,078	10/1	997	Ariie)	33	2	178	_		
	AE	333	5,68	0,418	10/1	997	Crof	t et al.	37	5	346]	
	AC	C33	5,68	9,413	11/1	997	Jara	millo et al.	36	3	146	DECI	EN/ED	
	AL	033	5,69	9,006	12/1	997	Zele	et al.	32	7	341	NEU	EIVED	
	AE	33	5,70	5,955	01/1	998	Free	burg et al.	33	1	14]	
	AF	33	5,71	0,998	01/1	998	Ора	s	45	5	324	MAR 0	5 2004	
	AC	333	5,71	4,910	02/1	998	Skoc	zen et al.	33	1	3			
	AF	133	5,71	5,281	02/1	998	Bly e	t al.	37	5	344	Technology	Center 2600	
V	Al	33	5,72	1,514	02/1	998	Croc	kett et al.	33	1	3	recillology	0011101 2000	
						FOREIGN	I PAT	ENT DOCUMENTS						
EXAMINER INITIAL	TIAL DOCUMENT NUMBER DATE COUNTRY CLASS SUB- CLASS TRANSLATION													
	AJ33 Yes No													
	AK33 Yes No.													
	AL33 Yes No													
	AA	M33			•							Yes No		
•				OTHE	(Incl	uding Auth	or, Ti	tle, Date, Pertinent Pages	, etc.)					
cic	AN	٠ <u>!</u>	<u>33</u>	Press Release Headquarter	s, "Pari s, 2 Pa	kervision Ad Iges (March	ds Two	o New Directors," Parkervisio 99).	on Mari	keting a	nd Manufa	cturing		
	AC	,	33	Press Release Marketing ar	e, "Parl nd Mar	kervision An outacturing l	nound Heada	ces Fourth Quarter and Year quarters, 3 Pages (March 5,	· End Fi 1999).	nancial	Results," Pa	rkervision		
	AP		Press Release, "Joint Marketing Agreement Offers New Automated Production Solution," Parkervision Marketing and Manufacturing Headquarters, 2 Pages (April 13, 1999).											
	AG	AQ 33 Project COST 205: Scintillations in Earth-satellite links,* Alta Frequenza: Scientific Review in Electronics, AEI, Vol. LIV, No. 3, pp. 209-211 (May-June, 1985).												
AR 33 Razavi, B., RF Microelectronics, Prentice-Hall, pp. 147-149 (1998).														
		if refe	erence					in conformance with MPEP	609. D		DERED 7/2	20/04 tation if not in		
f:\uses\usong\				au. inquae co	py of I	rus rorm Wif	ıı next	communication to Applican	ır				l	

MAR 0 4 2004 W

Page 34 of 53 ATTY. DOCKET NO. APPLICATION NO. 1744.0260001 09/476,093 FORM PTO-1449 APPLICANT Sorrells et al INFORMATION DISCLOSURE STATEMENT FILING DATE GROUP January 3, 2000 U.S. PATENT DOCUMENTS **EXAMINER** INITIAL DOCUMENT NUMBER DATE NAME CLASS SUB-**FILING DATE** CLASS EC. AA34 5,724,002 03/1998 Hulick 329 361 AB34 5,724,653 03/1998 Baker et al. 455 296 AC34 5,729,577 03/1998 Chen 375 334 AD34 5,729,829 03/1998 Talwar et al. 455 63 AE34 5,732,333 03/1998 Cox et al. 455 126 AF34 5,736,895 04/1998 Yu et al. 327 554 MAR 0 5 2004 AG34 5,737,035 04/1998 Rotzoli 348 725 AH34 5,742,189 04/1998 Yoshida et al. 327 113 echnology (Center 2600 Al34 5,748,683 05/1998 Smith et al. 375 347 **FOREIGN PATENT DOCUMENTS EXAMINER** INITIAL DOCUMENT NUMBER DATE COUNTRY CLASS SUB-**TRANSLATION** CLASS AJ34 Yes No AK34 Yes No AL34 Yes No **AM34** Yes No OTHER (Including Author, Title, Date, Pertinent Pages, etc.) Reeves, R.J.D., "The Recording and Collocation of Waveforms (Part 1)," Electronic Engineering, Morgan Brothers Limited, Vol. 31, No. 373, pp. 130-137 (March 1959). ΑN 34 C.C. Reeves, R.J.D., "The Recording and Collocation of Waveforms (Part 2)," Electronic Engineering, Morgan Brothers Limited, Vol. 31, No. 374, pp. 204-212 (April 1959). ΑO <u>34</u> Rein, H.M. and Zahn, M., "Subnanosecond-Pulse Generator with Variable Pulsewidth Using Avalanche ΑP <u>34</u> Transistors," Electronics Letters, IEE, Vol. 11, No. 1, pp. 21-23 (January 9, 1975). Riad, S.M. and Nahman, N.S., "Modeling of the Feed-through Wideband (DC to 12.4 Ghz) Sampling-Head," AQ <u>34</u> IEEE MTT-S International Microwave Symposium Digest, IEEE, pp. 267-269 (June 27-29, 1978). Rizzoli, V. et al., "Computer-Aided Noise Analysis of MESFET and HEMT Mixers," IEEE Transactions on Microwave Theory and Techniques, IEEE, Vol. 37, No. 9, pp. 1401-1410 (September 1989). AR <u>34</u> DATE CONSIDERED 7/20/04 **EXAMINER** C. CHOW

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in

conformance and not considered. Include copy of this form with next communication to Applicant.



Page 35 of 53

						-						Page 35 of 53	1		
								TY. DOCKET NO.		APPLI 09/47	CATION NO).			
		P	ORM F	TO-1449			<u> </u>	PLICANT					1		
	INFO	RMATION	DIS	CLOSURE STA	TEME	<u>vt</u>	So	rrells et al.							
								LING DATE nuary 3, 2000		GROUP 2631					
						U.S. P		T DOCUMENTS		1000					
EXAMIN	IER		Γ			0.5]				
INITIAL			NUA		DATE		NAM			CLASS	SUB- CLASS	FILING DATE			
	<u>c · </u>	AA35	-	5,829	06/1		_	derford, Jr.		375	200	 			
		AB35	_	0,645	06/1			ite et al.		329 327	105	DEO			
	-	AC35 AD35		4,087	06/1		Clar			327	356	HEU	EIVED		
	-	AE35		7,726 8,118	06/1		Wan	k et al.		363	72	 			
		AF35		1,442	06/1		_	g et al.		455	93	MAR 0	5 2004		
		AG35		7,692	07/1		Gho			348	725		0 2004		
		AH35		7,771	07/1		Smit	·		359	180	echnology	Contar 0000		
	A33 3,700,044 07/1770 Rogers et al. 340 0												Center 2600		
		1.000	107:0					ENT DOCUMENTS				<u> </u>			
EXAMIN INITIAL	XAMINER OCCUMENT NUMBER DATE COUNTRY CLASS SUB-CLASS TRANSLATION														
		AJ35										Yes			
	AK35 Yes No														
	AL35 Yes														
	No														
AM35 Yes No															
				OTHER	(Incl	uding Auth	or, Ti	tle, Date, Pertinent Pa	ges, etc	:-)					
		AN	25					nmunication Systems, D.			npany, Inc.,	Princeton, New			
		^"	<u>35</u>	Jersey, includ	ding, f	or example,	Chap	ter V, Pulse Modulation S	Systems	(1965).					
<u> </u>	٥.														
!				Rücker, F. an	id Dint	elmann. F	"Effec	t of Antenna Size on OT	S Sianal	Scintillatio	ns and The	r Seasonal			
AO Rücker, F. and Dintelmann, F., "Effect of Antenna Size on OTS Signal Scintillations and Their Seasonal Dependence," Electronics Letters, IEE, Vol. 19, No. 24, pp. 1032-1034 (November 24, 1983).															
	<u> </u>					· · · · · · · · · · · · · · · · · · ·		-							
	1	AP	25	Russell, R. ar	nd Hoo	ıre, L., "Milli	meter	Wave Phase Locked Osc	illators,'	* Military M	licrowaves '	78 Conference			
		<u> </u>	<u>35</u>	Russell, R. and Hoare, L., "Millimeter Wave Phase Locked Oscillators," Military Microwaves '78 Conference Proceedings, Microwave Exhibitions and Publishers, pp. 238-242 (October 25-27, 1978).											
	1			l						<u> </u>					
	l							of a Robust Flexible Recei							
	1	AQ	<u>35</u>	Communicat Australia, pp				Engineers Australia Comn ·18, 1990).	nunicatio	ons Conter	ence, Institu	tion of Engineers,			
	<u> </u>			,,,		· · · · · · · · · · · · · · · · · · ·					a				
	İ	AR	<u>35</u>					MCW waveforms for wid		hannel cha	racterizatio	n," IEE			
•	V	~``	42	Proceedings-	I, IEE,	Vol. 139, N	o. 3, p	op. 281-288 (June 1992)).						
		LI		1					<u> </u>						
EXAMIN	NER C.	CHOW	1						DA	ATE CONSI	DERED 7	20/04			
EXAMI				considered v	whethe	er or not cite	tion is	s in conformance with MI	PEP 609	. Draw line	through a	tation if not in			
conform	nance a	nd not co	nsider					t communication to Appl							
		126-1_1449.wp													

Page 36 of 53 ATTY. DOCKET NO. APPLICATION NO. 1744.0260001 09/476,093 FORM PTO-1449 APPLICANT Sorrells et al. INFORMATION DISCLOSURE STATEMENT PILING DATE GROUP January 3, 2000 2631 **U.S. PATENT DOCUMENTS EXAMINER** INITIAL DOCUMENT DATE NAME CLASS SUB-**FILING DATE** NUMBER CLASS C.C. AA36 5,793,801 08/1998 Fertner 219 375 AB36 5,793,818 08/1998 Claydon et al. 375 326 AC36 5,802,463 09/1998 Zuckerman 455 208 AD36 5,809,060 09/1998 Cafarella et al. 375 206 MAR 015 2004 AE36 5,818,582 10/1998 Fernandez et al. 356 318 AF36 5,825,254 10/1998 331 Lee 25 Sundegard 11/1998 AG36 5,834,985 332 100 AH36 01/1999 5,864,754 Hotto 455 280 Al36 03/1999 5,881,375 **Bonds** 455 118 **FOREIGN PATENT DOCUMENTS** EXAMINER INITIAL DOCUMENT NUMBER DATE COUNTRY CLASS SUB-TRANSLATION CLASS AJ36 Yes No AK36 Yes No AL36 Yes No **AM36** Yes OTHER (Including Author, Title, Date, Pertinent Pages, etc.) ΑN "Sampling Loops Lock Sources to 23 Ghz," Microwaves & RF, Penton Publishing, p. 212 (September 1990). <u>36</u> C.C. Sasikumar, M. et al., "Active Compensation in the Switched-Capacitor Biquad," Proceedings of the IEEE, IEEE, Vol. 71, No. 8, pp. 1008-1009 (August 1983). ΑO <u>36</u> Saul, P.H., "A GaAs MESFET Sample and Hold Switch," Fifth European Solid State Circuits Conference-AP <u>36</u> ESSCIRC 79, IEE, pp. 5-7 (1979). Shen, D.H. et al., "A 900-MHZ RF Front-End with Integrated Discrete-Time Filtering," IEEE Journal of Solid-AQ <u>36</u> State Circuits, IEEE Solid-State Circuits Council, Vol. 31, No. 12, pp. 1945-1954 (December 1996). Shen, X.D. and Vilar, E., "Anomalous transhorizon propagation and meteorological processes of a multilink path," Radio Science, American Geophysical Union, Vol. 30, No. 5, pp. 1467-1479 (September-October AR <u>36</u> 1995). EXAMINER CICHOW DATE CONSIDERED 7/20/04 **EXAMINER:** Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

Center 2600

P:\USERS\LASONG\1744\026-1_1449.wpd



				,				• •			Page 37 of 53	•
							TY. DOCKET NO. 44.0260001			CATION NO).	
			M PTO-1449		_	AP	PLICANT rrells et al.					
1	NFORMAT:	ION I	DISCLOSURE STA	TEME	<u>11 </u>	_	LING DATE		GROU	p		
							nuary 3, 2000		2631			
-VALUE IF B				r	U.S. P.	ATEN	DOCUMENTS			<u> </u>	1	
EXAMINER NITIAL			DOCUMENT NUMBER	DATE		NAM	E	С	LASS	SUB- CLASS	FILING DATE	
۲, ۲	. AA3	7 5	5,892,380	04/1	999	Quis	<u> </u>	3:	27	172		
	AB3	7 5	5,894,239	04/1	999	Bono	ccio et al.		27	176	 	,
	AC3	_	5,896,562	04/1			onen .		55	76	+RFC	EIVED
i	AD3	_	5,900,747	05/1		Brau			27 .	9	1110	Amount Market Co. C. D.
	AE3		5,901,054	05/1		Leu			63	41	MAD	0 5 2004
	AF3	_	5,901,187	05/1		linur			75	347	IVIAR	0 2 2004
	AG3	_	5,901,344	05/1		Opa		-	55	76		() = -1 = - 0000
- 1	AH3		5,901,347	05/1			nbers et al.		55	234.1	 Lechnolog	y Center 2600
<u></u>	AI3	:	5,901,348	05/1			et al.	4:	55	254		•
TV A LAIL IED		_			FOREIGN	PAI	ENT DOCUMENTS			T		
EXAMINER INITIAL		- 1	DOCUMENT NUM	BER	DATE		COUNTRY	С	LASS	SUB- CLASS	TRANSLATION	
	AJ3	7									Yes No	
	AK3	7							,		Yes No	
	AL3	7									Yes No	
	AM:	37	•		<u></u>						Yes No	
			OTHE	R (Incl	uding Auth	or, Ti	lle, Date, Pertinent Pa	ges, etc.)	<u> </u>	1 10	
حي .	AN	3	Shen, X. and Mechanisms	Tawfi ," Elect	k, A.N., "Dyi ronics Letter	namic 's, IEE,	Behaviour of Radio Cha Vol. 29, No. 17, pp. 15	nnels Due 82-1583	e to Tran (August	is-Horizon Pi 19, 1993).	opagation	
8,0		+										
	AO	3	7 aid of the po	ıraboli	c Equation o	and Ra	Spherical Diffraction and y Tracing Methods," IEE of c wave propagation, IEE	Colloquiu	m on Co	mmon mode	ling techniques	
	AP	3	7 Shen, X. and Electronics L	l Vilar, etters,	E., Path los IEE, Vol. 32,	ss stati , No. 3	stics and mechanisms of , pp. 259-261 (Februar)	f transhori y 1, 1996	izon pro).	pagation ove	or a sea path,"	:
	AQ	3					ed Discrete-Time Filterin . 54-55 and 417 (Febru			EEE Internati	onal Solid State	
	AR	3		Sixth I	nternationa	l Confe	oric Transhorizon Propag prence on Antennas and					
EXAMINER	C. CH	ıω						DAT	TE CONS	SIDERED 7/2	20/04	
EXAMINE			ence considered.	whethe	r or not cite	ition is	in conformance with M	PEP 609.	Draw lin	ne through c	itation if not in	
			idered. Include co									



Page 38 of 53 APPLICATION NO. ATTY. DOCKET NO. 1744.0260001 09/476.093 FORM PTO-1449 APPLICANT Sorrells et al. INFORMATION DISCLOSURE STATEMENT FILING DATE GROUP January 3, 2000 2631 U.S. PATENT DOCUMENTS EXAMINER INITIAL DOCUMENT NUMBER DATE FILING DATE NAME CLASS SUB-CLASS 05/1999 AA38 Guegnaud et al. 455 302 5,901,349 327 AB38 5,903,178 05/1999 Miyatsuji et al. 308 5,903,187 05/1999 Claverie et al. 329 342 AC38 AD38 5,903,196 05/1999 Salvi et al. 331 16 $MAR_{0} = 0.5 2004$ AE38 5,903,421 05/1999 Furutani et al. 361 58 05/1999 370 338 AF38 5,903,553 Sakamoto et al. 05/1999 375 207 AG38 5,903,595 Suzuki Technology Center 2600 05/1999 375 AH38 Kool et al. 261 5,903,609 05/1999 455 326 AI38 5,903,827 Kennan et al. **FOREIGN PATENT DOCUMENTS** EXAMINER INITIAL DOCUMENT NUMBER DATE COUNTRY CLASS SUB-TRANSLATION CLASS **AJ38** Yes No AK38 Yes No AL38 Yes No Yes **86MA** No OTHER (Including Author, Title, Date, Pertinent Pages, etc.) Stafford, K.R. et al., "A Complete Monolithic Sample/Hold Amplifier," IEEE Journal of Solid-State Circuits, IEEE, Vol. SC-9, No. 6, pp. 381-387 (December 1974). AΝ <u>38</u> CAC. Staruk, W. Jr. et al., "Pushing HF Data Rates," Defense Electronics, EW Communications, Vol. 17, No. 5, pp. 211, 213, 215, 217, 220 and 222 (May 1985). AO <u>38</u> Stephenson, A.G., "Digitizing multiple RF signals requires an optimum sampling rate," *Electronics*, McGraw-Hill, pp. 106-110 (March 27, 1972). ΑP 38 Sugarman, R., "Sampling Oscilloscope for Statistically Varying Pulses," The Review of Scientific Instruments, American Institute of Physics, Vol. 28, No. 11, pp. 933-938 (November 1957). AQ <u>38</u> Sylvain, M., "Experimental probing of multipath microwave channels," Radio Science, American Geophysical Union, Vol. 24, No. 2, pp. 160-178 (March-April 1989). AR <u>38</u> DATE CONSIDERED 7/20/04 **EXAMINER** CICHOW

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in



Page 39 of 53 ATTY. DOCKET NO. APPLICATION NO. 1744.0260001 09/476,093 FORM PTO-1449 APPLICANT Sorrells et al. INFORMATION DISCLOSURE STATEMENT FILING DATE GROUP January 3, 2000 **U.S. PATENT DOCUMENTS** EXAMINER INITIAL DOCUMENT DATE NAME CLASS FILING DATE SUB-NUMBER CLASS CVC AA39 5,903,854 05/1999 Abe et al. 455 575 AB39 5,905,449 05/1999 Tsubouchi et al. 340 925.69 AC39 5,907,149 05/1999 Marckini 235 487 AD39 5,907,197 05/1999 Faulk 307 119 AE39 06/1999 5,911,116 Nosswitz 455 83 AF39 5,911,123 06/1999 Shaffer et al. 455 5 2004 554 MAR (**AG39** 5,914,622 06/1999 Inoue 327 172 AH39 5,920,199 07/1999 Saver 324 678 Center 2600 Technoloa/ Al39 5,943,370 08/1999 Smith 375 334 FOREIGN PATENT DOCUMENTS **EXAMINER** INITIAL DOCUMENT NUMBER DATE COUNTRY CLASS SUB-TRANSLATION CLASS AJ39 No AK39 Yes No AL39 Yes No **AM39** Yes No OTHER (Including Author, Title, Date, Pertinent Pages, etc.) Takano, T., "NOVEL GaAs Pet Phase Detector Operable To Ka Band," IEEE MT-S Digest, IEEE, pp. 381-383 ΑN <u> 39</u> (1984). LC. Tan, M.A., "Biquadratic Transconductance Switched-Capacitor Filters," IEEE Transactions on Circuits and Systems- I: Fundamental Theory and Applications, IEEE Circuits and Systems Society, Vol. 40, No. 4, pp. 272-275 (April 1993). AO 39 Tanaka, K. et al., "Single Chip Multisystem AM Stereo Decoder IC," IEEE Transactions on Consumer Electronics, IEEE Consumer Electronics Society, Vol. CE-32, No. 3, pp. 482-496 (August 1986). ΑP <u>39</u> Tawfik, A.N., "Amplitude, Duration and Predictability of Long Hop Trans-Horizon X-band Signals Over the Sea," Electronics Letters, IEE, Vol. 28, No. 6, pp. 571-572 (March 12, 1992). AQ <u>39</u> Tawfik, A.N. and Vilar, E., *Correlation of Transhorizon Signal Level Strength with Localized Surface Meteorological Parameters,* Eighth International Conference on Antennas and Propagation, Electronics AR <u> 39</u> Division of the IEE, pp. 335-339 (March 30- April 2, 1993). **EXAMINER** DATE CONSIDERED a CHOW **EXAMINER:** Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

P:\USERS\JASONG\1744\026-1_1449.wpd



EXAMINER INITIAL

EXAMINER INITIAL

N.C.

FORM PTO-1449

INFORMATION DISCLOSURE STATEMENT

DOCUMENT

NUMBER

4,017,798

4,032,847

4,253,067

4,393,395

4,816,704

4,841,265

4,943,974

5,115,409

5,353,306

DOCUMENT NUMBER

AA40

AB40

AC40

AD40

AE40

AF40

AG40

AH40

A140

AJ40

AK40

DATE

04/1977

06/1977

02/1981

07/1983

03/1989

06/1989

07/1990

05/1992

10/1994

DATE

Page 40 of 53 ATTY. DOCKET NO. APPLICATION NO. 1744.0260001 09/476,093 APPLICANT Sorrells et al. FILING DATE GROUP January 3, 2000 U.S. PATENT DOCUMENTS NAME CLASS FILING DATE SUB-CLASS Gordy et al. 325 42 Unkauf 325 323 Caples et al. 329 110 Hacke et al. 358 23 Fiori, Jr. 307 519 MAR 0 5 2004 Watanabe et al. 333 194 Motamedi 375 Stepp 364 841 echnology|Center 2600 Yamamoto 375 14 **FOREIGN PATENT DOCUMENTS** COUNTRY CLASS SUB-TRANSLATION CLASS Yes No Yes No Yes No Yes No

AL40 AM40 OTHER (Including Author, Title, Date, Pertinent Pages, etc.) Tawfik, A.N. and Vilar, E., "Dynamic Structure of a Transhorizon Signal at X-band Over a Sea Path," Sixth International Conference on Antennas and Propagation (ICAP 89) Part 2: Propagation, IEE, pp. 446-450 (April ΑN <u>40</u> ٠, ٢. 4-7, 1989). Tawfik, A.N. and Vilar, E., "Statistics of Duration and Intensity of Path Loss in a Microwave Transhorizon Sea-AO <u>40</u> Path," Electronics Letters, IEE, Vol. 26, No. 7, pp. 474-476 (March 29, 1990). Tawfik, A.N. and Vilar, E., "X-Band Transhorizon Measurements of CW Transmissions Over the Sea- Part 1: Path Loss, Duration of Events, and Their Modeling," *IEEE Transactions on Antennas and Propagation*, *IEEE Antennas and Propagation Society*, Vol. 41, No. 11, pp. 1491-1500 (November 1993). ΑP <u>40</u> Temes, G.C. and Tsividis, T., "The Special Section on Switched-Capacitor Circuits," Proceedings of the IEEE, IEEE, Vol. 71, No. 8, pp. 915-916 (August 1983). ΑQ <u>40</u> Thomas, G.B., Calculus and Analytic Geometry, Third Edition, Addison-Wesley Publishing, pp. 119-133 AR <u>40</u> DATE CONSIDERED 7/20/04 **EXAMINER** CCHOW

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in

conformance and not considered. Include copy of this form with next communication to Applicant. P:\USERS\JASONG\1744\026-1_1449.wpd



Page 41 of 53 ATTY. DOCKET NO. APPLICATION NO. 1744.0260001 FORM PTO-1449 APPLICANT Sorrells et al. INFORMATION DISCLOSURE STATEMENT FILING DATE GROUP January 3, 2000 2631 **U.S. PATENT DOCUMENTS** EXAMINER INITIAL DOCUMENT DATE NAME CLASS SUB-FILING DATE NUMBER CLASS C.C. 05/1996 **AA41** 5,515,014 332 178 Troutman 5,563,550 10/1996 329 AB41 Toth 347 RECEIVED 11/1996 375 AC41 5,574,755 Persico 295 02/1997 Kotidis et al. 356 357 AD41 5,604,592 06/1997 AE41 5,638,396 Klimek 372 92 MAR 015 2004 AF41 5,675,392 10/1997 Nayebi et al. 348 584 AG41 5,694,096 12/1997 Ushiroku et al. 333 195 echnology Center 2600 AH41 5,757,870 05/1998 Miya et al. 375 367 Al41 5,768,323 06/1998 Kroeger et al. 375 355 **FOREIGN PATENT DOCUMENTS** EXAMINER INITIAL DOCUMENT NUMBER DATE COUNTRY CLASS SUB-TRANSLATION CLASS AJ41 Yes No AK41 Yes No AL41 Yes No AM41 Yes No OTHER (Including Author, Title, Date, Pertinent Pages, etc.) Tomassetti, Q., "An Unusual Microwave Mixer," 16th European Microwave Conference, Microwave Exhibitions AN 41 and Publishers, pp. 754-759 (September 8-12, 1986). LC. Tortoli, P. et al., "Bidirectional Doppler Signal Analysis Based on a Single RF Sampling Channel," IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, IEEE Ultrasonics, Ferroelectrics, and Frequency Control Society, Vol. 41, No. 1, pp. 1-3 (January 1984). ΑO 41 Tsividis, Y. and Antognetti, P. (Ed.), Design of MOS VLSI Circuits for Telecommunications, Prentice-Hall, p. ΑP <u>41</u> 304 (1985). Tsividis, Y., "Principles of Operation and Analysis of Switched-Capacitor Circuits," Proceedings of the IEEE, AQ 41 IEEE, Vol. 71, No. 8, pp. 926-940 (August 1983). Tsurumi, H. and Maeda, T., "Design Study on a Direct Conversion Receiver Front-End for 280 MHZ, 900 MHZ, and 2.6 Ghz Band Radio Communication Systems," 41" IEEE Vehicular Technology Conference, IEEE Vehicular Technology Society, pp. 457-462 (May 19-22, 1991). AR <u>41</u> **EXAMINER** DATE CONSIDERED 1/20/04 C. CHOW

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in



Page 42 of 53 ATTY. DOCKET NO. 1744.0260001 APPLICATION NO. 09/476,093 FORM PTO-1449 APPLICANT Sorrells et al. INFORMATION DISCLOSURE STATEMENT FILING DATE GROUP January 3, 2000 2631 U.S. PATENT DOCUMENTS EXAMINER INITIAL **DOCUMENT** DATE NAME CLASS SUB-FILING DATE NUMBER **CLASS** AA42 5,770,985 06/1998 Ushiroku et al. 333 193 AB42 5,778,022 07/1998 Walley 375 206 AC42 5,812,546 09/1998 Zhou et al. 370 342 AD42 5,818,869 10/1998 Miya et al. 375 206 AE42 12/1998 5,844,449 Abeno et al. 332 105 5 2004 MAR (I AF42 5,872,446 02/1999 Cranford, Jr. et al. 323 315 AG42 06/1999 5,909,447 Cox et al. 370 508 AH42 5,933,467 08/1999 Sehier et al. 375 350 echnology Center 2600 A142 09/1999 5,952,895 McCune, Jr. et al. 332 128 **FOREIGN PATENT DOCUMENTS** EXAMINER INITIAL DOCUMENT NUMBER DATE COUNTRY CLASS SUB-TRANSLATION CLASS AJ42 Yes No AK42 Yes No AL42 Yes No AM42 Yes No OTHER (Including Author, Title, Date, Pertinent Pages, etc.) Valdmanis, J.A. et al., "Picosecond and Subpicosend Optoelectronics for Measurements of Future High Speed Electronic Devices," IEDM Technical Digest, IEEE, pp. 597-600 (December 5-7, 1983). ΑN <u>42</u> C.C. van de Kamp, M.M.J.L., "Asymmetric signal level distribution due to tropospheric scintillation," *Electronics Letters*, IEE, Vol. 34, No. 11, pp. 1145-1146 (May 28, 1998). AO <u>42</u> Vasseur, H. and Vanhoenacker, D., "Characterization of tropospheric turbulent layers from radiosonde data," Electronics Letters, IEE, Vol. 34, No. 4, pp. 318-319 (February 19, 1998). AΡ <u>42</u> Verdone, R., "Outage Probability Analysis for Short-Range Communication Systems at 60 Ghz in ATT Urban Environments," IEEE Transactions on Vehicular Technology, IEEE Vehicular Technology Society, Vol. 46, No. 4, ΑQ <u>42</u> pp. 1027-1039 (November 1997). Vierira-Ribeiro, S.A., Single-IF DECT Receiver Architecture using a Quadrature Sub-Sampling Band-Pass Sigma-Delta Modulator, Thesis for Degree of Master's of Engineering, Carleton University, UMI Dissertation AR <u>42</u> Services, pp. 1-180 (April 1995). **EXAMINER** DATE CONSIDERED C.CHOW **EXAMINER:** Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

P:\USERS\1450NG\1744\026-1_1449.wpd

Page 43 of 53

Center 2600

)

							TTY. DOCKET NO. 744.0260001			CATION NO		
			PTO-1449				PPLICANT prrells et al.				HEC	EIVED
INF	ORMATIO	N DIS	CLOSURE STA	TEME	<u>NT</u>	FI	LING DATE Anuary 3, 2000		GROUP 2631		MAR	5 2004
	· · · · ·				U.S. P	ATEN	T DOCUMENTS]
EXAMINER INITIAL			CUMENT MBER	DAT	Ē	NAA	AE	CL	ASS	SUB- CLASS	TECD BY TO S	Center 260
£.C.	AA43	5,96	50,033	09/1	999	Shib	ano et al.	37	5	207		
<u> </u>	AB43	6,04	11,073	03/2	000	Davi	idovici et al.	37	5	148	09/18/1998	
<u> </u>	AC43	+	54,889	04/2		Kobo	ayashi	32		357	11/11/1997	
 	AD43	1	34,922	07/2			u et al.	37		316	04/16/1998	
 	AE43	1	25,271	09/2			land et al.	45		313	03/06/1998	
 	AF43	+	17,340	11/2		Levy		25		214 R	09/29/1998	
1	AG43	1	17,763	11/2			lechner	35		484	12/27/1999	
 	AH43 Al43	1	50,890	11/2		·	ngaard et al.	33		14	09/30/1998	
	A143	13,12	26,682	06/1			nberg et al. ENT DOCUMENTS	32	y	304	1	
EXAMINER INITIAL		DOG	CUMENT NUM	BER	DATE	1171	COUNTRY	CL	ASS	SUB- CLASS	TRANSLATION	
	AJ43									CDA33	Yes No	
	AK43										Yes No	
	AL43										Yes No	
	AM43										Yes No	I
	,,		OTHE	(Incl	uding Auth	or, Ti	tle, Date, Pertinent Pages	, etc.)				l
c,c.	AN	<u>43</u>		itional	Conference		lective MM-Wave Satellite De ntennas and Propagation, Ele					
	AO	<u>43</u>		No. 34	6: Characte	ristics	LOS Atmospheric Transmitte of the Lower Atmosphere Inf					
	АР	<u>43</u>	Vilar, E. and IEEE Transac	Smith, tions o	H., "A Theon Antennas	oretica and P	il and Experimental Study of a ropagation, IEEE, Vol. AP-34	Angulo , No. 1	ır Scintil , pp. 2-	lations in Ec 10 (January	irth Space Paths," 1986).	
·	AQ	<u>43</u>					orizon Experiment at 11.6 Gh cs Division of the IEE, pp. 44					
	AR	<u>43</u>	Vilar, E. and Vol. 8, No. 2				ude Dependence of Frequence er 5, 1972).	cy in O	scillator	s," Electronic	es Letters, IEE,	
	CHO		considered y	chetho	r or not cita	tion is	in conformance with MPEP (CONSI	7.	20/04	
	nd not co	nsider					t communication to Applican		um mit	- in ough Ci	MINIST II HOLLII	



Page 44 of 53 ATTY. DOCKET NO. APPLICATION NO. 1744.0260001 09/476,093 FORM PTO-1449 APPLICANT Sorrells et al. INFORMATION DISCLOSURE STATEMENT FILING DATE GROUP January 3, 2000 2631 **U.S. PATENT DOCUMENTS** Technology Center 2*600* **EXAMINER** INITIAL DOCUMENT DATE NAME FILING DATE CLASS SUB-NUMBER CLASS **AA44** 5,841,811 11/1998 Song 235 375 AB44 09/1977 4,051,475 Campbell 343 180 AC44 5,953,642 09/1999 Feldtkeller et al. 455 195.1 AD44 03/1987 Heck 4,653,117 455 209 AE44 5,859,878 01/1999 Phillips et al. 375 316 AF44 5,894,496 04/1999 Jones 455 126 AG44 5,915,278 06/1999 Mallick 73 658 6,028,887 AH44 02/2000 Harrison et al. 375 206 06/26/1997 Al44 6,081,691 06/2000 455 Renard et al. 12.1 04/14/1998 FOREIGN PATENT DOCUMENTS **EXAMINER** DOCUMENT NUMBER INITIAL DATE COUNTRY CLASS SUB-TRANSLATION **CLASS** AJ44 Yes No AK44 Yes No AL44 Yes No AM44 Yes No OTHER (Including Author, Title, Date, Pertinent Pages, etc.) Vilar, E. et al., "An experimental mm-wave receiver system for measuring phase noise due to atmospheric ΑN 44 turbulence," Proceedings of the 25th European Microwave Conference, Nexus House, pp. 114-119 (1995). 0,0 Vilar, E. and Burgueño, A., "Analysis and Modeling of Time Intervals Between Rain Rate Exceedances in the Context of Fade Dynamics," *IEEE Transactions on Communications*, IEEE Communications Society, Vol. 39, ΑO <u>44</u> No. 9, pp. 1306-1312 (September 1991). Vilar, E. et al., "Angle of Arrival Fluctuations in High and Low Elevation Earth Space Paths," Fourth International Conference on Antennas and Propagation (ICAP 85), Electronics Division of the IEE, pp. 83-88 ΑP 44 (April 16-19, 1985). Vilar, E., "Antennas and Propagation: A Telecommunications Systems Subject," Electronics Division Colloquium on Teaching Antennas and Propagation to Undergraduates, IEE, pp. 7/1-7/6 (March 8, 1988). AQ <u>44</u> Vilar, E. et al., "CERS". Millimetre-Wave Beacon Package and Related Payload Doppler Correction Strategies," Electronics Division Colloquium on CERS- Communications Engineering Research Satellite, IEE, pp. AR 44 10/1-10/10 (April 10, 1984). **EXAMINER** DATE CONSIDERED C. CHOW **EXAMINER:** Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in

conformance and not considered. Include copy of this form with next communication to Applicant.
P.NUSERSTANSONG(1744026-1_1447.mpd



Page 45 of 53

									T		Page 45 of 53
							TY. DOCKET NO. 44.0260001			ICATION NO 76,093	o.
	P	ORM PTO	0-1449			AP	PLICANT				
INF	ORMATION	DISCL	OSURE STAT	CEMEN	<u>rr</u>	_	rrells et al.		I an arr		
							LING DATE nuary 3, 2000		GROU 2631	P	
					U.S. P	ATEN	T DOCUMENTS				
XAMINER NITIAL		DOCU		DATE		NAM	NE .	С	LASS	SUB- CLASS	FILING DATE
C.C.	AA45	6,121,		09/2	000	Trayl	or	3:	27	359	04/06/1998
1	AB45	6,144,		11/2	000	Vice	et al.	3:	27	113	02/01/1998
	AC45	6,144,	846	11/2	000	Dure	c	4:	55	323	12/31/1997
	AD45	6,175,	728 81	01/2	001	Mita	ma	4:	55	323	03/13 1778
	AE45	5,705,	949	01/1	998	Aleiy	unas et al.	3:	29	304	IILC
	AF45	5,883,		03/1		+	rd et al.	 _	29	306	I I I I I
$-\!$	AG45	4,484,		11/1		+	ch et al.		29	50	MAR
	AH45	5,841,		11/1		Willie		·	31	17	- · ·
	A145	4,855,	894	08/1			i et al.	[3	63	157	1 Technolog
XAMINĖR		1			FUREIGI	YPATI	ENT DOCUMENTS	<u> </u>			<u> </u>
NITIAL	ļ	DOCU	MENT NUMB	BER	DATE		COUNTRY	C	LASS	SUB- CLASS	TRANSLATION
	AJ45										Yes No
	AK45										Yes No
	AL45										Yes No
	AM45		 							†	Yes
		l	OTHER	(Incl	uding Auth	or, Ti	l tle, Date, Pertinent P	ages, etc.)		No
ረ.ሪ.	AN	45 E	/ilar, E. and A Electronics Let	Moulsl Hers, I	ey, T.J., "Co EE, Vol. 21	ommer , No. 1	nt and Reply: Probabilit 4, pp. 620-622 (July 4	y Density F , 1985).	unction	of Amplitude	e Scintillations,"
											
ŀ											
	AO						all Rate Duration Distrib 2-1924 (September 24		ILE-IFE o	and Barcelon	a," Electronics
		45 L	etters, IEE, Vo	ol. 28	, No. 20, p	p. 192	2-1924 (September 24	, 1992).			Letters, IEE, Vol.
	AP .	45 L	etters, IEE, Vo	oolariz . 732	ation and I 733 (April J.R., "Elev	rield Tr 25, 19	2-1924 (September 24	r Communi	cations,	* Electronics	Letters, IEE, Vol. - on Earth Space
-	AP .	45 L	/ilar, E., "Dep 27, No. 9, pp /ilar, E. and L Paths," Sixth II 150-154 (Apr	ol. 28 polariz . 732 arsen nterno ril 4-7	ation and I -733 (April J. R., "Elev Itional Cont 1, 1989).	rield Tr 25, 19 ation C ference	2-1924 (September 24, ransmittances in Indoor 191).	r Communi rde Scintilla pagation (IC	ications, ditions on CAP 89) i	Low Elevation 2: Propo	Letters, IEE, Vol. on Earth Space igation, IEE, pp. I Ghz,* 18*
	AP .	45 L	/ilar, E. , "Dep 27, No. 9, pp /ilar, E. and L Paths," Sixth II 150-154 (Apr	ol. 28 polariz . 732 arsen nterno ril 4-7	ation and I -733 (April J. R., "Elev Itional Cont 1, 1989).	rield Tr 25, 19 ation C ference	2-1924 (September 24, ransmittances in Indoor 191). Dependence of Amplitue on Antennas and Prop	r Communi rde Scintilla pagation (IC	ications, itions on CAP 89) I	Low Elevation 2: Propo	Letters, IEE, Vol. on Earth Space igation, IEE, pp. I Ghz,* 18*



Page 46 of 53 ATTY. DOCKET NO. 1744.0260001 APPLICATION NO. 09/476,093 FORM PTO-1449 APPLICANT Sorrells et al. INFORMATION DISCLOSURE STATEMENT FILING DATE GROUP January 3, 2000 2631 U.S. PATENT DOCUMENTS EXAMINER INITIAL DOCUMENT NUMBER DATE NAME CLASS SUB-FILING DATE CLASS <u>ტ</u>_С. **AA46** 06/1994 5,319,799 455 78 Morita AB46 5,801,654 09/1998 Traylor 341 144 AC46 5,369,404 11/1994 Galton 341 143 AD46 3,716,730 02/1973 Cerny, Jr. 307 295 MAR 0 5 2004 03/1978 AE46 4,080,573 Howell 325 439 AF46 4,334,324 06/1982 455 Hoover 333 01/1983 AG46 4,369,522 455 Cerny, Jr. et al. 333 Technology Center 2600 11/1995 AH46 5,465,418 Zhou et al. 455 332 A146 04/1996 5,513,389 Reeser et al. 455 311 **FOREIGN PATENT DOCUMENTS** EXAMINER INITIAL DOCUMENT NUMBER DATE COUNTRY CLASS SUB-TRANSLATION AJ46 Yes No AK46 Yes No AL46 Yes No AM46 Yes No OTHER (Including Author, Title, Date, Pertinent Pages, etc.) Vilar, E. and Matthews, P.A., "Importance of Amplitude Scintillations in Millimetric Radio Links," Proceedings of the 4th European Microwave Conference, Microwave Exhibitions and Publishers, pp. 202-206 (September AN <u>46</u> 10-13, 1974). Vilar, E. and Haddon, J., "Measurement and Modeling of Scintillation Intensity to Estimate Turbulence Parameters in an Earth-Space Path," *IEEE Transactions on Antennas and Propagation*, IEEE Antennas and Propagation Society, Vol. AP-32, No. 4, pp. 340-346 (April 1984). AO <u>46</u> Vilar, E. and Matthews, P.A., "Measurement of Phase Fluctuations on Millimetric Radiowave Propagation," *Electronics Letters*, IEE, Vol. 7, No. 18, pp. 566-568 (September 9, 1971). ΑP <u>46</u> Vilar, E. and Wan, K.W., "Narrow and Wide Band Estimates of Field Strength for Indoor Communications in the Millimetre Band,* Electronics Division Colloquium on Radiocommunications in the Range 30-60 Ghz, IEE, AQ 46 pp. 5/1-5/8 (January 17, 1991). Vilar, E. and Faulkner, N.D., "Phase Noise and Frequency Stability Measurements. Numerical Techniques and Limitations," *Electronics Division Colloquium on Low Noise Oscillators and Synthesizer, IEE, 5 pages (January 23, 1986).* AR <u>46</u> **EXAMINER** DATE CONSIDERED CCHOW **EXAMINER:** Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in

conformance and not considered. Include copy of this form with next communication to Applicant.
P:\USERS\USENS\USens\Usens\USENS\USENS\USENS\USens\Usens\Usens\Usens\Usens\Usens\usens\usens\Usens\Usens\Usens\Usens\use



Page 47 of 53

						1	TY. DOCKET NO. 444.0260001	1		CATION NO	o.	
	1	FORM	PTO-1449				PLICANT					
<u>inf</u>	ORMATIO	N DIS	CLOSURE STA	TEME	NT	<u> </u>	orrells et al.	1				
							LING DATE nuary 3, 2000		GROUI 2631			
					U.S. P	ATEN	T DOCUMENTS					
EXAMINER INITIAL			CUMENT MBER	DAT	E	NAA	AE	CLA	ss	SUB- CLASS	FILING DATE	
C.C.	AA47	5,9	59,850	09/1	999	Lim		363		17		
	AB47	Ι										
	AC47										DECE	
	AD47											V
	AE47											
	AF47										MAR 0.5	2004
	AG47	1_				<u> </u>						
	AH47									To	chnology C o	enter 2600
	Al47									10	dilliology of	pritter 2000
	 				FOREIGN	PAT	ENT DOCUMENTS			1		
EXAMINER INITIAL		DO	CUMENT NUM	BER	DATE		COUNTRY	CLA	ss	SUB- CLASS	TRANSLATION	
	AJ47							-			Yes No	
	AK47										Yes No	
	AL47										Yes No	
	AM47		-					1			Yes No	
			OTHE	R (Incl	uding Auth	or, Ti	tle, Date, Pertinent Pages,	etc.)				
	T			•								
	İ		Vilar F and	Senin	S "Propag	ation	phase noise identified using	40 Ghz	satelli	ite downlink	* Flectronics	
_	AN	<u>47</u>					1-1902 (October 23, 1997).		. 001011		, 2.000	
(.C	1											
	1											
	AO	<u>47</u>	(Barcelona)	and Tr	opical (Beler	n) Reg	tion: Dependence Upon Rain jions," Tenth International Co 230-2.233 (April 14-17, 199	nferenc				
	АР	<u>47</u>	AGARD Conf	erence	Proceeding	s No.	n Modeling and Measuremen 332: Propagation Aspects of (October 18-22, 1982).					
	AQ	<u>47</u>		on Sate	ellite Commu		al Transmission Through Turb on Systems Technology, Elect					
	AR	47					ary of Scintillation Observations and Propagation Part 2: Pro					
EXAMINER (CHO	w	1					DATE	CONS	IDERED 7	20/04	
EXAMINER: I	nitial if re	ferenc					s in conformance with MPEP of t communication to Applicant		raw lin	e through c	itation if not in	
P:\USERS\JASONG\1744												



Page 48 of 53 ATTY. DOCKET NO. APPLICATION NO. 1744.0260001 09/476,093 FORM PTO-1449 APPLICANT Sorrells et al. INFORMATION DISCLOSURE STATEMENT FILING DATE GROUP January 3, 2000 2631 U.S. PATENT DOCUMENTS EXAMINER INITIAL DOCUMENT DATE NAME CLASS FILING DATE SUB-NUMBER CLASS **AA48** AB48 AC48 AD48 AE48 MAR 0 5 2004 AF48 AG48 Technology Center 2600 **AH48** Al48 **FOREIGN PATENT DOCUMENTS** EXAMINER INITIAL DOCUMENT NUMBER DATE COUNTRY CLASS SUB-TRANSLATION CLASS AJ48 Yes No AK48 Yes No AL48 Yes No **AM48** Yes No OTHER (Including Author, Title, Date, Pertinent Pages, etc.) Vilar, E. et al., "Wideband Characterization of Scattering Channels," Tenth International Conference on Antennas and Propagation, Electronics Division of the IEE, pp. 2.353-2.358 (April 14-17, 1997). ΑN <u>48</u> d.C. Vollmer, A., "Complete GPS Receiver Fits on Two Chips," *Electronic Design*, Penton Publishing, pp. 50, 52, 54 and 56 (July 6, 1998). AO <u>48</u> Voltage and Time Resolution in Digitizing Oscilloscopes: Application Note 348, Hewlett Packard, pp. 1-11 ΑP <u>48</u> (November 1986). Wan, K.W. et al., "A Novel Approach to the Simultaneous Measurement of Phase and Amplitude Noises in Oscillator," Proceedings of the 19th European Microwave Conference, Microwave Exhibitions and Publishers Ltd., pp. 809-813 (September 4-7, 1989). AQ <u>48</u> Wan, K.W. et al., "Extended Variances and Autoregressive/Moving Average Algorithm for the Measurement and Synthesis of Oscillator Phase Noise," Proceedings Of the 43rd Annual Symposium on Frequency Control, AR <u>48</u> IEEE, pp. 331-335 (1989). DATE CONSIDERED 7/20/04 **EXAMINER** C, CHOW

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in

conformance and not considered. Include copy of this form with next communication to Applicant.
P.USERSVASONGV17440026-1_1449.wpd



Page 49 of 53

							TTY. DOCKET NO. 744.0260001		PPLICATION N 9/476,093				
TN			PTO-1449 CLOSURE STA	TEME	NT		PLICANT prrells et al.						
241	- OKTATIO	N D20	CHODOKE DIP	11000	<u>14.7</u>		LING DATE		ROUP 531				
					U.S. P	ATEN	T DOCUMENTS]		
EXAMINER INITIAL	į		CUMENT MBER	DAT	E	NAA	AE	CLASS	SUB- CLASS	FILING DATE			
	AA49					1					1		
	AB49										1		
	AC49									COL] ,		
	AD49									1EUET	VE		
	AE49												
	AF49									MAR 0.5	7004		
	AG49												
	AH49								To	phology ()	htor		
	Al49								160	chnology C e	ILEI		
					FOREIGN	I PAT	ENT DOCUMENTS				1		
EXAMINER INITIAL		DO	CUMENT NUM	BER	DATE		COUNTRY	CLASS	SUB- CLASS	TRANSLATION			
	AJ49	-								Yes No			
	AK49									Yes No	1		
	AL49	l								Yes No	İ		
	AM49									Yes	1		
·			OTHER	l (Incl	udina Auth	or. Ti	l tle, Date, Pertinent Page	s. etc.)		No	i		
٥,٥.	AN	<u>49</u>	Wan, K.W. et	al., "	Wideband Ti	ransho	orizon Channel Sounder at Inders - Technology and Med	11 Ghz," <i>El</i>					
	AO	<u>49</u>					Mixer Core in 0.5 - μm CM(No. 12, pp. 2265-2267 (De			ate Circuits, IEEE			
	АР	49		igital l	Processing o	f Signo	ersion and Signal Processing als in Communications, Insti						
	AQ	<u>49</u>	Weast, R.C. & 480-485 (19		Ed.), Handbo	ook of	Mathematical Tables, Seco	nd Edition,	The Chemical R	ubber Co., pp.			
	AR	<u>49</u>					dulation Using Zero Crossin -1065 (July 1981).	ngs," IEEE Ti	ansactions on C	ommunications,			
EXAMINER C	CHO	ω	<u></u>		 			DATE CO	ONSIDERED 7/	20/04			
EXAMINER:	Initial if ref	erence	e considered, w ed. Include co	hethe	er or not cita this form wit	tion is	in conformance with MPEP communication to Applica	609. Drav	v line through c	tation if not in			
USERS\USONG\174											•		

MAR 0 1 2004 W

Page 50 of 53

								TTY. DOCKET NO. 744.0260001			CATION N	o.]
		F	ORM I	PTO-1449			_	PPLICANT		105/1			1
	INFO	RMATIO	N DIS	CLOSURE STA	TEME	NT		orrells et al.					
						_		ILING DATE anuary 3, 2000		GROUI 2631	?		
						U.S. P		IT DOCUMENTS					j
EXAMINI INITIAL	ER		no	CUMENT	DAT	F	NA	MF	- CI	ASS	SUB-	FILING DATE]
				ABER		-		716			CLASS	TILINO DATE	
		AA50	┼				_				 	<u> </u>	
		AB50	┼				-	· · · · · · · · · · · · · · · · · · ·				RFCF	EIVED
 		AC50 AD50	+				-				 		- V house (i.)
		AE50	†								 	MAR 0	5 2004
		AF50	1										0 2004
		AG50									1	Tochnology	Contor 2600
		AH50										1601110109y	Center 2600
		AI50	<u> </u>	<u></u>			<u> </u>						
		T				FOREIGN	I PAT	TENT DOCUMENTS			1		
EXAMINI	ER		DOG	CUMENT NUM	BER	DATE		COUNTRY	CL	ASS	SUB- CLASS	TRANSLATION	
		AJ50		•								Yes No	
		AK50	Г									Yes	
)		AL50	╁┈		`	<u> </u>		 				No Yes	
ļ		AM50	\vdash			<u> </u>		 				No Yes	
		74.130				<u></u>						No	
				OTHER	t (Incl	uding Auth	or, T	itle, Date, Pertinent Pa	ges, etc.)				
	λ	AN	<u>50</u>	Worthman, V	V., " C	onvergence	Ago	ain," RF Design, Primedia,	p. 102 (M	arch,19	99).		
C	, C ,												
				Young I A o	nd Ha	ndaes D.A	•MO!	S Switched-Capacitor Ana	lon Samal	led-Data	n Direct-For	m Recursive	
		AO	<u>50</u>	Filters," IEEE	Journ	al of Solid-St	ate C	ircuits, IEEE, Vol. SC-14, I	No. 6, pp.	1020-1	033 (Decen	ber 1979).	
						1						_	
]		AP	50	Translation o	f Spec	rification and	d Cla	ims of FR Patent No. 224:	5130.3 nc	ages			
1 1		l^"	<u>50</u>	Transianon o	, opo.	onicanon am			5100, 0 pt	. 903.	. *		
								•			 		
1 1	• •								-				
		AQ	<u>50</u>	Fest, Jean-Pi 54, pp. 40-4				A/N Revolutionne Le Rece	epteur Rad	lio," Elec	tronique, JA	AJ (Publisher), No.	
l ·			·	54, pp. 45-4	- 100		٠١٠					`	
						·							
1 1													
	,	AR	<u>50</u>	Translation o	f DE F	Patent No. 3	5 41	031 A1, 22 pages.					
₩	1												
EXAMIN	ER C	CHO	w	 					DATE	CONS	IDERED 7/2	20/04	
EXAMIN	~~~			a considered w	hethe	ar or not cita	tion i	s in conformance with MF					
conform	ance ar	d not co	nsider	ed. Include co	py of	this form wit	h ne	d communication to Appli	icant.		vy		

MAR O 1 2004 W

Page 51 of 53

							TTY. DOCKET NO. 744.0260001		APPLICATION NO. 09/476,093				
			PTO-1449				PPLICANT orrells et al.	•					
INFO	RMATIO	N DIS	CLOSURE STA	ATEME	<u>N.T.</u>	F	ILING DATE anuary 3, 2000	GRO 263			1		
					U.S. P/	_	NT DOCUMENTS	1203	<u> </u>		1		
EXAMINER INITIAL			CUMENT MBER	DAT	E	NA	ME	CLASS	SUB- CLASS	FILING DATE			
	AA51	1.0.	· · · · · · · · · · · · · · · · · · ·	\vdash				<u> </u>	10000	 			
	AB51												
	AC51	-		-	·		·		\bot	ECE!	VED		
	AD51 AE51	+	· · · · · · · · · · · · · · · · · · ·	 		_		_		 	ł		
	AF51	+								MAR 05 2	1004		
	AG51												
	AH51	├-		 				-	Tec	nology Ce	nter 2600		
	AIST	1		ــــــــــــــــــــــــــــــــــــــ	FOREIGN	PAT	TENT DOCUMENTS			<u> </u>			
EXAMINER INITIAL		DOG	CUMENT NUM	\BER	DATE		COUNTRY	CLASS	SUB- CLASS	TRANSLATION			
	AJ51									Yes No			
	AK51	1						<u> </u>		Yes			
	AL51	+						 		No			
<u></u>	ALSI									Yes No			
	AM51									Yes No			
			OTHE	R (Incl	uding Auth	or, T	itle, Date, Pertinent Pages	, etc.)					
Ø.C.	AN	<u>51</u>	Translation o	of EP P	atent No. 0 7	732 8	803 A1, 9 pages.						
	AO	<u>51</u>	Fest, Jean-Pi 54, 3 pages	erre, *	The A/D Con nber 1995).	verte (Tra	er Revolutionizes the Radio Renslation of Doc. AQ50).	eceiver," Elec	tronique, JMJ (Publisher), No.			
	АР	<u>51</u>	Translation of	f Germ	an Patent No	. DE	197 35 798 C1, 8 pages.						
	AQ	<u>51</u>	Miki, S. and 154 (April 30			dula	tion System II, Common Editic	on 7, Kyorits	u Publishing Co	o., Ud., pp. 146-			
	AR	<u>51</u>	Miki, S. and 149 (April 30	Nagal), 195	nama, R., Mo 6). (Partial Tr	dular	tion System II, Common Edition ation of Doc. AQ51).	on 7, Kyorits	u Publishing Co	o., Ltd., pp. 146-			
EXAMINER C	CHO	W	<u> </u>			··· <u>·</u>		DATE CON	ISIDERED 7/	50/04			

MAR 0 1 2004 W

Page 52 of 53

F	·					1,7	PRV DOCUMENO				age 32 01 33	1
							TY. DOCKET NO. 44.0260001	- 1	09/47	CATION NO 6,093	•	
ļ	F	ORM	PTO-1449			AE	PLICANT					1
INFO	RMATIO	N DIS	CLOSURE STA	TEME	<u>nt</u>	_	orrells et al.					l
İ							LING DATE nuary 3, 2000		GROUP 2631			
		·			U.S. P		T DOCUMENTS		2001			
EXAMINER INITIAL			CUMENT MBER	DAT	E	NAA	AE.	CLA	ASS	SUB- CLASS	FILING DATE	
	AA52	1						1				
	AB52										i	
	AC52										RECEI	VED
	AD52	1						\neg				VIII
	AE52										****	0004
	AF52		-		·						MAR 0 5	2004
	AG52											
	AH52									Tec	hnology Co	enter 2600
· .	AI52	L									37	
					FOREIGN	PAT	ENT DOCUMENTS			r		
EXAMINER INITIAL		DO	CUMENT NUM	BER	DATE		COUNTRY	CLA	ss	SUB- CLASS	TRANSLATION	
	AJ52										. Yes No	
	AK52										Yes No	
	AL52										Yes No	
	AM52										Yes No	
·			OTHE	l (Incl	uding Auth	or, Ti	tle, Date, Pertinent Pages	, etc.)				
										•		
O.C.	АН	<u>52</u>	Rabiner, L.R. and 40-46 (ory An	d Application Of Digital Sign	al Proce	essing, F	Prentice-Hall	, lnc., pp. xiii-xii	
	AO	<u>52</u>	English-lang Pages (last vi	vage / sited l	Abstract of Ji December 1	P 08-0 4, 200	332556, published February (11).	2, 1996	ó, from f	http://www1	.ipdl.jpo.go.jp, 2	
	АР	<u>52</u>	English-lang Pages (last vi	uage / sited (Abstract of J December 14	9 08-1 4, 200	39524, published May 31, 1 11).	996, fr	om http	://www1.ipc	ll.jpo.go.jp, 2	
	AQ.	<u>52</u>	English-lang Pages (last v	uage /	Abstract of Ji lanuary 2, 2	P 59-1 002).	44249, published August 18	3, 1984	, from h	ttp://www1.	ipdl.jpo.go.jp, 2	
	AR	<u>52</u>	English-lang Pages (last vi				54002, published March 8,	1988, fi	rom http	o://www1.ip	dl.ipo.go.ip, 2	
EXAMINER	cHo	w	1					DATE	CONSI	DERED 7/8	20/04	



Page 53 of 53

							TY. DOCKET NO.		APPLICATION NO. 09/476,093					
TNP			TO-1449 CLOSURE STA	TEME	υT		PLICANT orrells et al.							
AME	JAPIA I TO	N DIG	CHOSOKA SIA	T BOB!	1 <u>4</u>		LING DATE nuary 3, 2000		GROUI 2631)				
					U.S. P/	ATEN	T DOCUMENTS]		
EXAMINER INITIAL			CUMENT ABER	DATE		NAM	AE	c	CLASS	SUB- FILING DATE				
	AA53	1.10.	NOCK .									i		
	AB53	1					 ,					1		
	AC53	1						_			-0-1			
	AD53	1								H	ナしトラ			
	AE53													
	AF53										AR 0 5 20	h4		
	AG53										7111 0 0 20	Γ'		
	AH53									Toch	alany Cont	br 260		
	AI53	<u> </u>								160111	lology Cent	FI 201		
		.,			FOREIGN	PAT	ENT DOCUMENTS							
EXAMINER INITIAL	:	DOG	CUMENT NUM	BER	DATE		COUNTRY	c	CLASS	SUB- CLASS	TRANSLATION			
	AJ53										Yes			
	AK53	 									No Yes			
	 	ļ					<u> </u>	-			No			
	AL53	1						1			Yes No			
	AM53	 								 	Yes			
	7,133										No			
-			OTHER	(Incl	uding Auth	or, Ti	itle, Date, Pertinent Po	iges, etc.)	<u> </u>				
c.c.	AN	<u>53</u>	English-langu Pages (last vi	uage A sited J	Abstract of JF lanuary 2, 26	P 06-2 002).	237276, published Augu	ıst 23, 19	94, from	http://www1	.ipdl.jpo.go.jp, 2			
c.c.	AO	<u>53</u>		inglish-language Abstract of JP 08-023359, published January 23, 1996, from http://www1.ipdl.jpo.go.jp, Pages (last visited January 2, 2002).										
	AP	<u>53</u>												
	AQ	<u>53</u>	·											
	AR	<u>53</u>												
	1	L						DA	TE CONS	IDERED 7/	/ /			
EXAMINER 🔨	CHO	w						15	12 00110		<i>20/04</i>			